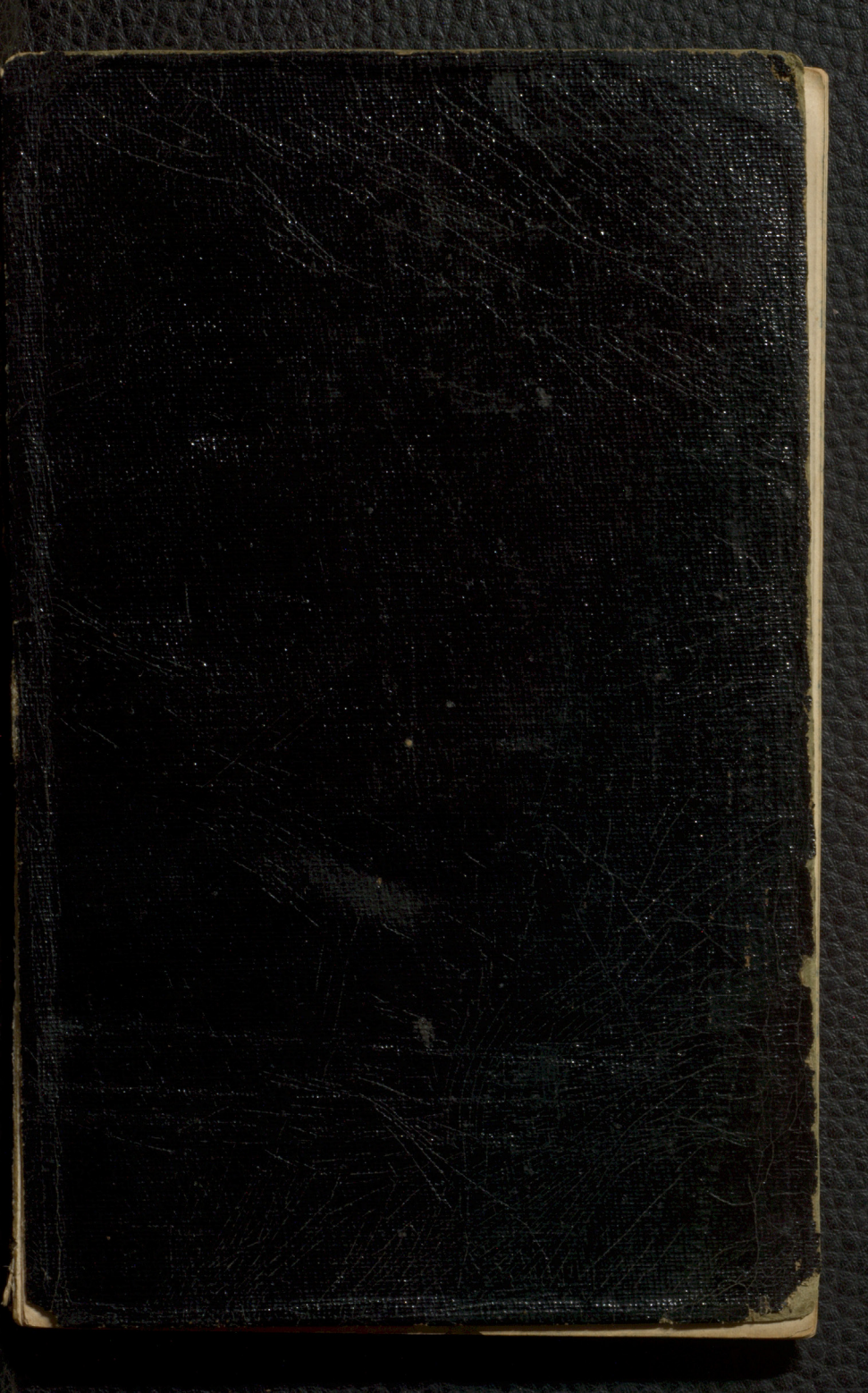




Greater fleas have smaller fleas
 Upon their legs, to bite 'em
 And little fleas have lesser fleas
 And so a d. infinitum

C. Kingsley

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Standard
 Handwritten
 1886

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James Borell M.D. M.R.C.P.

Prof Nat. Theology in Trinity College Toronto

Lecturer on Eusebius & Medicine in Toronto School of Medicine

Consulting physician to Toronto General Hospital

Physician & Surgeon in Hospital

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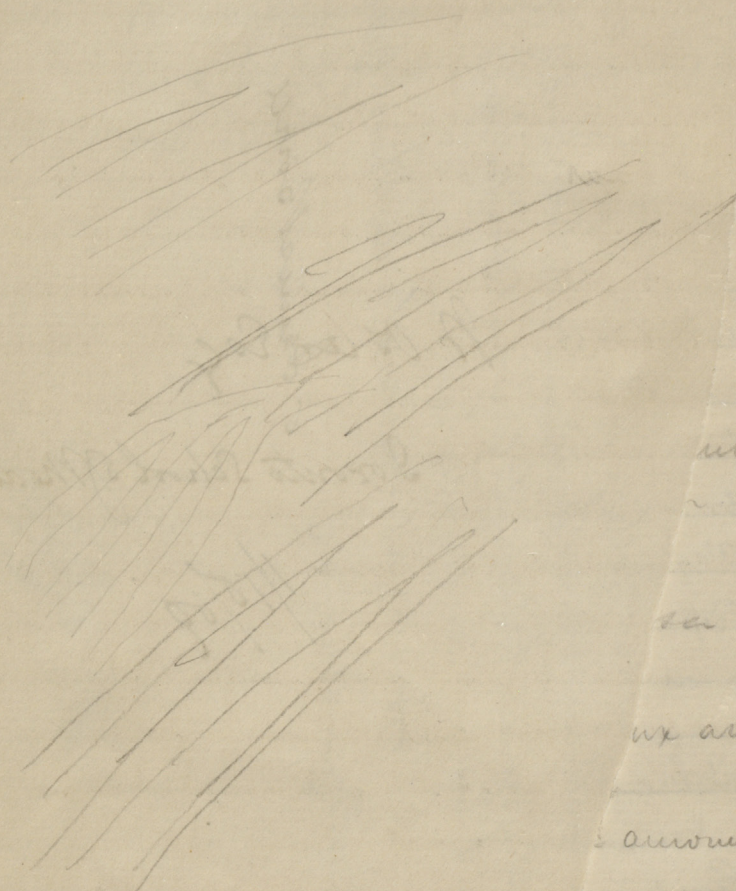
of Natural Theology vol. 1 & 2

James Borell

Esq

Toronto School of Medicine

11/10/69



uti-

ca

we are

amount

mission is

by hand with

Chemical action sometimes fuses.

Some metals have not been fused but probably will be.

Conversion from solids to liquids

a certain amount of heat disappa-
latent heat take a lb of water & turn it to zero
take it in the air at 40 & you get a mean at 40
mix equal parts of water at -11°C & ammonium
nitrate & a sample of -16 may be procured
by means of iron & sulphur acid per cent of
at temper from -7 to $-5-1$ & 1/2 mix in
iron & calcium chlorate we may get $-5-5-$
100 cub inch of Phos at 44° when melted
expands to 103.5 and contracts when cooled
some exceptions the most common are
water iron melted iron expands when
solidifies, but gold, silver, iron, cast iron, etc.

Boiling

The boiling point of a liquid is when the
bubble of steam rises through without
condensing. In a glass vessel water
boils at 100 but in a metal one
at 100. If you boil water set

does not

boils readily. When opened a
vacuum it will boil with rapidity.
The boiling point of pure acid is that at which its
water boils decreases the higher you
go. at Sueto it boils -90 . at St. M. Blanche
at -84 .

Ammonia

Liquor Ammoniae is water but the gas described
best for ammonia being a white mineral with NH₃ acid
and dense white fumes.

Hydrochloric acid

Is a compound of chlorine & hydrogen
generally obtained by action of SO_4 on common salt.

Sulphur

SO_2 Sulphurous ac. SO_3 Sulphuric acid
 112 SO_2 113 SO_3

Sulphurous anhydride gas is in volume
in air of place down. a river in S. Am. contains
a large quantity of it. all the
precipitate SO_2 with lime or other precipitant
but that will take away of SO_2

It is colourless. 2.25 under considerable press
It liquefies at -15° . It condenses & evaporates
very rapidly. When sulphur is thrown into a
fire when the chimney is open will put it out.
It bleaches vegetable colours. all colours of an
animal nature are all bleached by sulphurous acid
It does not destroy the colour of aniline until it
It also destroys those colours which have due to large
quantities of oxygen. It is a strong dehydrated
a valuable absorbent. It stops fermentation
vegetable life is destroyed by sulphurous acid
Be. base & acid have two equivalent of H.

Sulphuric acid

It exists in form of anhydride & H_2SO_4
the most important & the strongest acid.
The action of $H^+O_4 + SO_2$ of sp gr 1.84 bou 327
sp 35. boils with dense white fumes
& when 1 sulph acid you get an exceedingly low
temperature

Into hydrous oxide. Aqua regia

Oxides of Iron.

Two important oxides Ferrous & Ferric
It is a bivalent metal also a quadrivalent then

Protoxide of iron differs but becomes
very little known about it. It gives a deep green
precipitate. The Ferric & Ferric oxides of Fe are
the best for Protoxide of iron

Degmoxide of iron

It occurs largely in nature in combination with silicon
It exists in nearly all minerals & plants & the minerals
owe their red colour to it; this one is called haematite
metals. It is found in the cracks & crevices of volcanoes
It is often mixed with clay. The raw samarra is nothing
more than clay impregnated with iron. It is insoluble in
water. It is difficult to dissolve in acids.

Hydroxide oxide of iron is best antidote of arsenic
It is prepared in this way. Take some green vitriol
heat till it boils add sulphuric acid

It can be detected by the same tests as the protoxide
It is a combination of samarra or some other acid
with iron. The blue color is owing to them being mixed

by mixing ferrous sulphate & tartaric acid. If salt
is not pure the ink is blue. pure salt gives the
jet black.

Excellent test for per-oxide of iron is to add

Magnetic oxide of iron

It is a mixture of the proto & ferro-oxide. It contains
the most iron of any of the ores.

Ferric acid is obtained by mixing iron
filings with nitric acid & evaporating to dryness
& decomposes rapidly.

Compounds of sulphur & iron
two of importance

Iron pyrites is distinguished from gold by pouring
nitric acid which dissolves the pyrites but not gold.
Comp of Phos & iron is of no importance. It may be
det.

8 NaCl
14 H₂SO₄ 120
4 H₂O

Testing for arsenic

See that your Hydrochloric acid is absolutely pure
old.

Arsenous acid, Fowler's solution, arsenic acid and the
substances generally found
when in contents of stomach

Metallic Ionics

Iron

This is the chief mineral tonic, it enriches the blood, invigorates the system and improves the functions. It is often given in combination with other medicines. when used as a tonic it should be given in moderate quantities and the use should be continued for some time as it is slow in its action. give three or four times a day after meals while there is food in the stomach.

disturbance 25/1/70

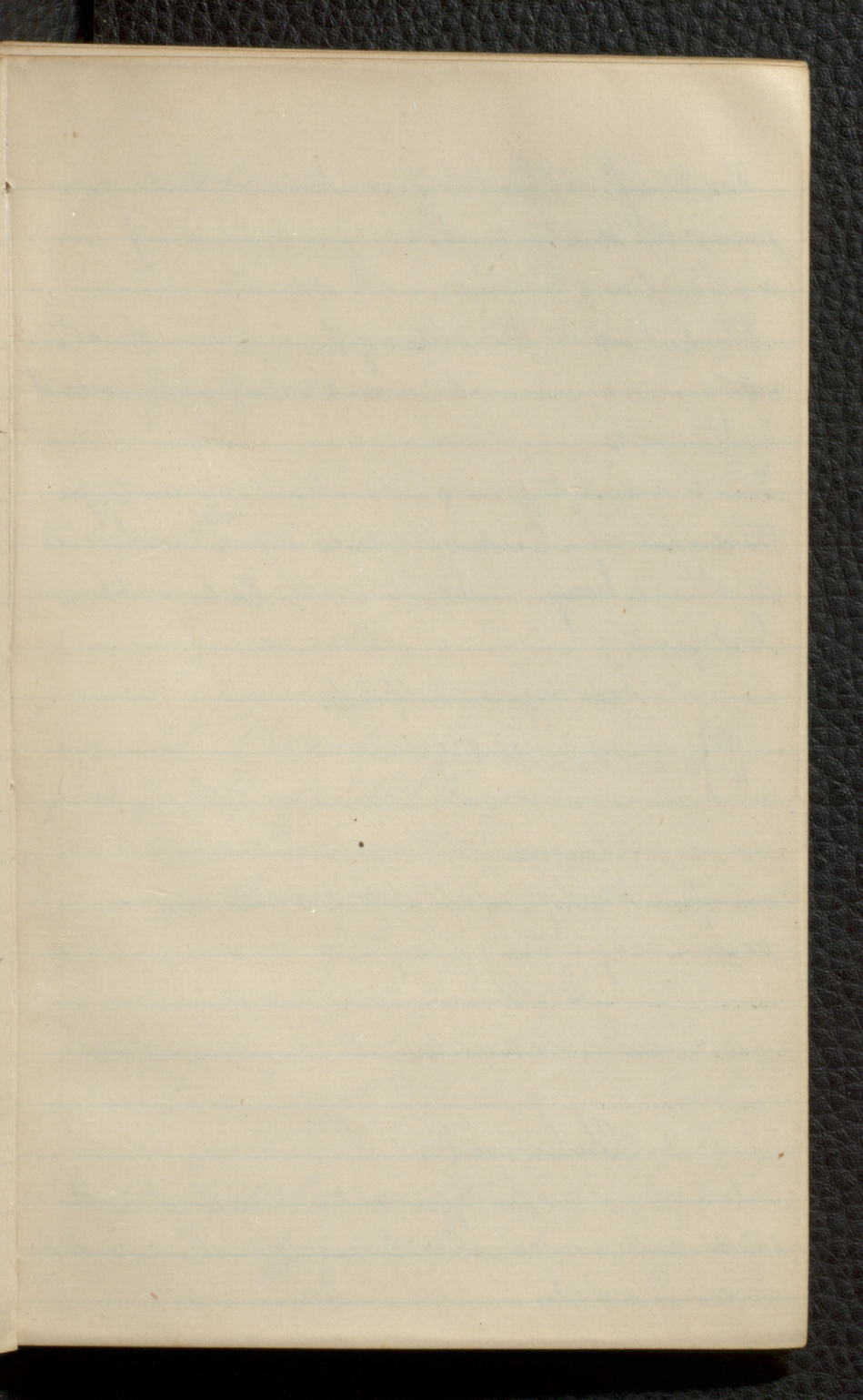
Cervix the parities are small, separated & resemble
a spindle in shape. The effacement of the neck
the near app. of cervix, which occurs after it dips period
of gestation down 3 in. it lowers & moves in front & pushed to the
right side, the rectum. In last six months the cervix rises
fully, the ascent of body mounts up & above the head as the
fundus forms & to the right change in size out of place
as as follows fundus is deep part of uterus the body, as 10 cm
the able cannot be detected & the per. cannot reach upper
part to detect any. In 4 or 5 month the fundus may be felt
above the anterior wall of pelvis. It is quite above the
pubis in 5 mo. it rises then over the pub. & umbilic
& finger find the enlarged body of uterus. In 6 mon
it is as high as umbilicus in 7 months it may be felt
half way bet umb. & lower end of uterus & finger readily
detects the gl. part of uter. rising on symph. & within
the clutchead. by end of 8 mo. it is as high as ensiform
cartilage & the abdomen. In 9 the uter. could
hardly not obs. if in descent of fundus with on com
falls lower towards end of 9 months, difficult
to touch the os. in course of being cut high at up
& back part of

Quickening this is due to act of more gelid
foetal motion can perceive about $4\frac{1}{2}$ mo aft last
month. have been compared with sensation com-
f from greenish milk abdomen. but peculiar
feeling accompanying it is diff wth prodn of more
& should be warm. at fourth moon the motion
is very feeble. it is only when eye is upon it
& runs per se & then is seldom can thus 18 weeks
for good motion of general corp des it is
it is like the tick of quater. comes as pulsation
& other as a fluttering. allent of foetal sickness
or sanguine discharge. motion has been shut
may be felt at intervals by the mother. all ob-
period it is easy to see the movements. these
places the hand on abdomen will produce
kicks. we labour under this disadvantage
we must trust & distrust the woman. she
may faintly tell us she has felt these
various motions are felt. is that certain evidence the
along should in uterus? it is not. for in some
case the intellectual more the parts of organs, parts
& in some of abdomen muscle decreased when
the uterus is only to peristaltic contract. from

from one end to the other. at the other the uterus contracts
at one point. some women have accepted the power
of contracting the abdominal muscle in a careful
quadriceps may be postponed until the 5-6-7-8 month
in some I never occurs & the mothers in these cases are
wasting. It is seldom that you do not meet it
Cheriton in some diff of opinion as to this sign.
If many of per. women is put in way & exp in high
any place. when put in it is a ad whitish clouded
& has a nausea about. per while expects
an even & makes in cloudy, flatter. The urine in
become more impure & hazy. No change is seen
in surface of per but in 18-24 hours a ring
small bits of granules appear in some cases
& in some instances they unite to form a thin
translucent under layer. the urine remains thus for
several days & manifests the pec signs of putr
upon 2-3 day soon become to hazy, dimish.
the ring in cloudy, appy when down is stronger & a
pellicle may be discerned from like a nebulous
strata but gradual e.g. lay down. these are
evident on 3-4 days. the pellicle presents a ring
opaque upper which grows thicker the rest

sap is under mixed & small grain which is
white color & crystalline & is like the layers of put-
in cold water by 5-6 d, the pellucidity is destroyed & its
debr precipitate & form a white crust on the
p. There are reformed granules white the per-
ageneal but now supplemt, on-5-6 d,
the turbid, of the color increases. perhaps
then commences & a 3rd recess, more
which perhaps engenders on ording urine
& see off a sherry cheery odour, not clear at
what period. Do not doubt at this mon-
thick saps after 1st month. It is not of const-
n d, even. It consists of cyst of triple plus
allud ears, fat infus & from growth
various opinion as to what it is to be attributed to
some conclude the passage of urine into urine
Can then be seen with blackal secretion
Nervous that it an over secretion of agolyzed
matter. It is as follows, not always in
an of porous women. It has been seen in of
healthy pers & in those of pers off produce
obs open to py & other say the in 8 I care
to care it app in 68 in 11 it was not performed

in 6 of part, in 30 cases of Rind expect perthral
exp in all but 3. In 50 & came conclude that the p
is for the infrequency is of in. Can you in some
app. with Pthhis &c. some say that the rain dist
that while it cannot be raised or high as a sign
it appears support corroborative proof. even this
account should not be set aside. Dusky hue
of vagina, this is one of the best mark for sign.
& is present from where per T-15 until when
other signs are incipient, it commences in 4 or 5
men. till delivery & ceases with lochia. Lochia
is that of a violent time. or a kind of indurately has not
confined to vagina & on mucous surface of vulva & on in-
terosseous surface & on the oblique surface of the
& is more or less at the end of the. not uniform
diffused but in patches. may be absent in some
cases but very present is a patch
Vaginal patch. the order is in in some cases
& perthralum on mucous. not in



The Leaf. what its function is & its form
from the distribution of a bundle of
vascular tissue.

Phylotaxis is the order of the leaves. the stem
advances by internodes and a leaf at the end of each
internode.

Two leading types of venation. in one type
there occurs a tendency to veins ^{at right} angles to radiate
in other always mixed with tale radial lines
leaf for leaf

Sodium Hypo-sulphite

S₂O₃ } builds with Sulphur

Selenium

similar to sulphur in all its properties except
it is a red powder.

Iridium

is even rarer than Selenium

Chloroids

Chlorine forms the type. all of them unite with
H₂ and are monads strong affinity for metallic
+ non-metallic

Chlorine. 33-5. sp gr 2.4

This Hydrochloric acid is obtained from the Luby
glauber. this acid was called muriatic acid
Chlorine is made in two methods

any body who contains

colour pale green. odour disagreeable. acts upon
lungs most violently. antidote wet a hand
kerchief with alcohol & breathe it, as it
absorbs it quickly, soluble in cold water
to extent of 1-2 volumes. when exposed to
pressure of 4 atmospheres it condenses to a green
liquid. Phos when put into chlor takes
fire of itself & a little O_2 is present it burns with
various metals will burn in O_2 as in
 O_2 without being heated. Gold leaf will
after a time be attacked. Chlor dissolves
in water but the solution spoils in time
most common property of it is bleaching power
all substances bleach if the chlorine is perfectly dry
It acts violently on all compounds of Hydro-
chloric of impurities. It is excited on by vapours
of all black fumes are shown off
for all decomposing animal substances.

Supps they can be decomposed by chlorine
valuable as ~~are~~ disinfectants

17/10/70

Medley
MacAllister

Menstruation, continue

The duration of the period is from 4 - 5 days
5 may be taken as the average duration
When a woman has her course peculiar
some for 2-3 days the interval for a week
such variations be quite within the
limits of health. The quantity is subject to an
amount which is connected with health in
woman is menorrhagia and the
first 3-5 oz may be taken as an average
a good way is to see the number of grains
needed to produce a change of 3-4 is a proper
number for normal menstruation of 7 or 8
the flow is excessive. The quantity seems
to be influenced by diet habits & climate
Gravid in rich & indolent women than
in the thin poor & industrious, the
amount is not the same but the
menstrual epoch, to see if flow is more
during the 1-2 day more during 3 & 4 & the
discharges neither is the discharge always
continuous. It sometimes flows & stops

for several hours or even days. Moral
anathemas, disfigurement, cold may determine
to menstruation. The condition of the whole
ut is modified, the decline of blood to this
organ rather it being darker, finer &
lower in the vagina. The Fallopian tubes
& uterus & the black umbil. The canal
per vagina is more dilated at & subject to more
irritation. A cause to be a when some
irritation a contraction of os at the sphincter
muscles to leucorrhoea is one of the & so
a short in cyl flow a marked increase
of aculea feeling. The intention of this is obvious.
The cause is referred to the ovaria. It is either
connected with ovulation of ova follicles & can occur
without. It is found that in women with profuse
discharges of ova even when the sexual feel-
ing is strong but in whom the uterus is deficient
ovulation takes place, and in the vagina or but
& c no sanguineous discharge occurs even in these
cases a show from the vulva, epistaxis, or a profuse
In cases when ovaries have been & perverted the
menstrue are stopped &

Large muscular organ is composed of several
passing from the cavity of uterus. It arises from
the pores of uterus. In the apex
uterine mucosa even swollen but body
& neck. In uterus it formed a valve, men-
strual abutment easily detached & shows
a red work of blood vessels. This in men-
was thickened, comp. of uterine glands
& filled with cylinders without cilia. Struc-
ture of uterus of corpus of a network of fine
fibre. muscular fibres & amorphous
uterus covered with mucus. In
of the uterus. Vagina in men, pale
with a three layers of mucous. It results
from this is that the menstrual organ
the resemble that of gestation

For says that it is deciduous every month.
Lyon Smith is of opinion that mucous men-
is broken up. & its debris discharged during
each month. & the blood scattered during
broken up of men. & the duration of men-
corresponds to the time in this deciduous
& runs of time

nature of discharge can say say the duty
the milt, prove that the red discharge is
singumous, the blood being unduly seen
it has been found consist of blood globes and
platelets, mucus from glands & epithelium
excreted. Whitehead has found that
the milt is alkaline as it comes from the
but become acid in the vagina, this fluid
has been chemically examined & given
blood. It was sup that milt blood diff
in the absence of it in milt is not
that the cause of its coagulation depends on the
acid secretion of the vagina, when contrary
as it is such it coagulates in milt. It is
is in fact sup to neutral the acid secretion
it coagulates out of the body. The symptoms
is attended with a peculiar odour, which
is entirely due to the de mania. The
discharge is 1. milt. or 2. milt. of chronic
habits & civil life. The states, show a
from 9-26/12. The gr milt. was at the
age of 4 1/2/16 as from her cause of death
on influence of climate. It was the that

in Antecubital cleft occur in women only
& in a colourless clot & in some more
than in others. In torrid zone and become
more numerous. The difference between them
depends on the age. The age is 13 in the
& 15 in Eng. In India it is 16. There occurs
besides clivage as the involutionary changes
of extreme civility, much sedentary occupies
little active exertion, refined by domestic
manners which prevail in centres of civil
all these excite the uterine organs. Thus
menstruation appears earlier in child of rich
race has an influence. English child born
in India would & vice versa.
The cessation of the menses takes place at
45 years but considerable variation
known to be up to 35 & cases have occurred
at 60-65 years 20 years & up then to 60
or, month the period would be 380
The cessation rarely takes place in sudden
but irregular sixteen months & variable
period of time, this is called the "dodging" but
over from a few months to 6-7 years, 2 yrs

a general indurification of mucous, lumbar
pelvic pains, colic, flushes of heat, & sudden
& spontaneous of shivering & perspiration
as regards menstruation they suffer greatly & without
sometimes the approach comes on by slight discharge
or may be excessive a violent flux of yellow
replace the flow in intervals of pain, in many
of cases the troubles are slight & disappear
diseases declare themselves which before were
latent -

Changes in the internal parts of the
ovum these results in formation of
decidua, this is a membrane which with
the ovum is a membrane is detached from the
wall of the uterus. It consists of ~~glandular~~
processes, d. vera & reflex. the former being
the external & thicker & the latter at the
inner side. These are in contact
at part when ovum rests upon uterus
up to a recent period then though that time
afterwards the uterus divides on its end surface
a membranous sac & the ovum lies in the fold
under the uterus by pushing before it a thin membrane

& thus consider the d. typhosa. This assumes that
the organism has the power to detach this membrane
& the ovum is sometimes called a
cell as is known that Dec is not an ovum.
Dr. Allen has shown that it has all the char-
acteristics of an ovum, the form is large
& smooth like the simple glands become comp-
act the membrane is hyperbolic, & it fills the
uterus, & the ovum may rest at any given point
the so-called Mac men consist the D. vera
as to the D. reb. Gooden & Co. they, that called
smaller than the uterine follicle below
it what he term the 2nd class of cells the cells
had power of production. The small one on
into the uterine is embedded in the endometrium
which comes with the chorion, is the uterine
According to Hunt the d. vera is a soft body for-
med by the metamorphosis of the mac men glands
in the uterus that the Ova rest in the uterus is called
in soft a body more than & is. The soft body
is like the d. vera, when first formed it differs
from d. vera in composition of cells which
D. vera has. The parts of camp contain

a case of an album chart & adjacent to the
ovum. "Hydropenone," Blood grass the
the inner cup of Jar. is smooth the outer ones
of number of cupped elevations or little bags
covered with dark fluid. When fully developed
last seen at 2 2 months.

Surgery Pro Cerebrum 2⁵/10/10

Dysipetia Borealis a small kind of a purple
color cups slowly an painful & may, 2⁵/10/10
if we catch a minute acid, cod-liver oil
nourishes iron & lime chlo Pot & acal of course 3¹/₂
of m Plethoric myon larval low diet & L₂ Potassum
After times & L₂. local Dr. of cop. by to about
any mil, or point with iodine or by cop incision
a more easily useful in a cop. usually with
poultices punctures & even with soap plaster
or soap sugar & the carbolic soap is useful in
the organ. *Cerbricula* ^{or author of} ~~more~~ found, sometimes
flat purple spongy swell, of white & of dusky
nature slight elev. circled & encircled as it
when it becomes hard & brown & cells has sloughs
& skin give way at one point & the star color red
has shown through & dark mixed spongy mass

still they, the way is slow, constant, without
app. raised & in men & all their women. Local
make a free come in upon was the old plan
of must be seen & seen in this way to done
but not generally required. Use pieces of ash pla
or soap pla on the skin to get an opening or
collodion has a spot near. It prevents the
spreading, the danger pyemia, If the mis
are in medic with carbolic cond, pull the sloughs
away as soon as possible. carbolic but can not
& sup. it on the can not & kill the skin & cells
sub & the apply a poultice with oil, sometimes
are subcutaneous. Use in in Ch Pot. Carb
are & bark, & subcutaneous put some & brand
& give an small cut for & clear out the bowels
Purine salicin is an excretion, a fatal
form is facial carbuncle. It come a a
form in upper lip & on a few days
the face is a hard carbuncle & and
in olive / son & D. open to no good of
seen in the flesh of caustic, in 24 hours the
side face is involved. In Chloral shot
of put some, Carb acid

Inguinal canif pos in caps leg in v
skin, prout open, & complete the very close
accutal can may be made to meet all way of
Inflam, speru raps & change place, & occ
allie inter allogues, a blood drawn cause,
a cure cause or can of. Inguinal & rap
posu box, & is oc epidemic. chd monst-
wounds & it is contagious apst to all each nurses
& scant wound old so can not reliable, like
Kops & in occ in bad, ventilated hospit
in crowded wards, cont of put unmed matter
under such a type wound may be attacked
It has been in to several parts, 1st & 2nd kind acci
cut ex, 2 Phly or cellul. cut, 3 cellulitis
or diffuse inflen & has been seen in 12th on
anal, periodic, & in Loxopullic. Traun
Simple Inq, after ngors raised for perthe
coat put, arushous out in 24 hours. may
come on immediately each const sign, If treat
may on fingers are swollen & a red bluish
surface, by sea, in this order it comes
In the skin of aff & is of a high red color & is
porean, dpu into air, early for season in

& a low, serrated, & stony pain. 8 or 10
magn & acrotium when much debilitated. Non
spec rapid, & occurs chiefly in mid lobe & a little
place in any of the glands of neck are now
& painful. often more than sympathy with the
long epinephrenic end or he has caught one at all
under it more liable to a second. Doubtless my
soft in some form of print, face & head pain when head
ache. Tension growth of full pulse & asthenic
demon of discharges of urine burden of epinephrenic
& diarrhoea in age of youth & advanced it is a
found disease. It is apt to be unphical
in heart adults it is common. First, of course
symptoms ^{typical} or of the form of an acute & of the paroxysm
& of an acute & acute or veratrine or Belladonna
or of a more or less lower asthenic type of
four paroxysms, see Fr. Mercur. xx & of 3-4 hours
& may be combined with green, green, nervous
lymphoid. Local form of the disease with of
or with a gland, & change the hot cloth for
around with glycerine. Catarrh is well known
3 or 4 in print of milk, it is usually in the
or veratrine ^{sub} 3 or 4 gland. If leucorrhoea is present

a fine lancelet & pen. raised the skin. the hole
ought never to be used, there is a pardon & much
& same may be in of the of food but you hide the disease
& while hand may be used large flees per, use
Lundager of the per

Cellula cutis moniformed, con. of graft
of for part, per. d. & the three last per
of game & collapse, ridges of a dark cotton swell
at first & is often in feet then, but in
normal life hand when when by early large
vesicular form with a bloody area, pain, intense
tension & throbbing in the for and then here
in with the skin & per. & of left hand of it then
in of course, if it extends deep the entire forearm may
be destroyed in some cases amputation is required
T. sub. is in of green an, small pain, ant. & ant. p.
for & d. is in, then certain, ch. 1st. 2nd. 3rd. 4th.
Chile of skin & tissue are large, close, & bones ligand
in, hot, firmest & clearest when skin is hard
& tense then first incisions to the fascia, come
in form of long incisions made then in diamond
form on the whole of the limb, plug with
of much blood, & after some even part used with

and oil is my lead & the farther over redness
& swelling, if sloughing occurs the skin must
be pulled away. free incision an imperious de-
mand for discharge of the sloughs. It is important
as a precursor is a severely inflamed gland of the part.
Cellulitis has no cause for wound or injury
a disease or from wound, it is seen as a form of
erysipelas but even when spreading, swelling
differs & at first black & blue & after sloughs occur
crispation. Wound infection is sometimes
provided by the spread. Free incisions, stumps
& seen as last form. It is produced by a blood poison.

Tumors

26/9/10

Arranged under the general term, and from
it implies only, benign not dangerous & is easy
to new growths, but larger and greater in
or covers great areas and sometimes
tumors are called carcinomas when they are
& sarcomas when they have no resemblance
- occur in all parts of body, especially in glands & cells
run in veins & lymphatics, most in deep skin
any which metastasize in lymphatics. color of
pink and by good light will often be seen the

Inf attacked a liver acts in a depressed manner
May be removed in various ways, by abrasion, or by
slough, or by cauteries or ligature, & to the knife
to deliver the choice of means we give a choice

In the Flesh, & Encysted, or come ya globin
and or cyst when the cysts are solid & when
the natural skin a sac containing fibr. falls
or mites. Encysted in liver as regular sac filled
with var. in, & the var. would be liquid or more
thick or honey, occas. black melanotic & in liver
by dated. Cystic. Simple or Bland & Prof
can contain some fibr. & Pro

Some solid tumours can easily be collected and
when forms a barrier they have no such limit
some have no tendency to communicate with the
in Innocent & Malignant. Liver which in the
of long daily life stand to the ultimate of
as short bleed or called Malignant. Has
all herogonous. Invariant in
some hold a middle place as Terofatous
but can be absorbed or broken down by slough
Simple solid Liver, & glandular in
Fibrous-plastic. Chronic Hypertrophy of the

As a man eat, aspirin make his joints, who
to by themselves, seen made up of cellulose
bloods. As a to glands, subcutaneous membrane
bleed. When cut into the natural texture applied
on form condensed, when it has again a cover
the muscled large, smooth surface, with a no pain
as of heat - no classical, warm of covered, clear white
rapid growth in the coloration of surface, when it
is cut into, a smooth fine granular apperance
is found, under microscope hypertrophy of cells
variously shaped. It is not most ready to
absorption of gas, but used of iodine or an
alkali con of Hg. $\frac{1}{4}$ of product of my skin with Soda
Chloride carb of Pot. & 2 ograms in cup of water with
it may be prepared with soda water, or with glass
in include of zinc continued, growing up when skin is
tender. See Whittier an. & only to possess
of you can, secretion should be allowed
not diet, & legume & liquids prohibited
If obstinate you may remove by knife, when cups
is closed skin will turn out of as con-
taining the arter has formed unsatisfactory

28/10/70

Fibrous net with a sides of small areolar
 masses in a phlegm under the skin, does
 not begin to cohere, but later as the disease
 advances the phlegm is called desmoid. See
 of cellular degeneration, when cut, phlegm
 is dense with naked eye, slender undulating
 filaments, has an irregular surface, comp
 & firm feel, grows in color in a cyst, except with
 hardest of all samples. not rare painful &
 slow growth, some contain cysts of fat cyst
 (Benn.) Paget, fibro-cellular) grow to considerable
 size & ~~mass~~ differs from sarcoma in that
 no pain or cure with removal of the
 volume of skin, & ceases to grow after a while
Fruit samples of the tumor of the skin of deep
 situation, but not leading to cancer, although
 from however do. These that I mean, are called
 Recur fibroid of Paget. tend to recur after
 removal & some of the forms have tendency to
 infiltrate internal organs. No Recum
 are so frequent & less fibrous at each recurrence do not
 present cancerous development lymphatic & of the
 perfect health, not considerable affection.

they contain nucleated cells, imperfectly developed
Inkblot conical or rounded, never not
confined to it. The most embryonic the most
likely is it to occur again, removed by the knife
when external, occasionally

Cartilaginous, enchondroma, occurs often
in short bones, here often grown to size of a pigeon
egg. Elsewhere, essentially, the osseous structure
varies due according to situation, another var-
iety grows rapidly & is unconnected with bone
apt to recur, & affect internal organs, apt
to soften and break down in the center
Another tumor is called Myeloid neo-
plasm, connected with bone, like the structure
of marrow, & sometimes pulsates from
containing so much blood. removal of ^{an} apical
is for unless very small.

Fatty tumor, teratoma, the one hemoma, & others
in appearance seen common. As granules
grown to large size enclosed within capsule
this has little or no attachment or connection
with small blood, irregular in figure, skin
not discoloured, displays irregularity of gray

no pain, exam soft doughy feel met with
in perfectly healthy persons in women more than
men, met in several cases in same individual
do not become dangerous, but it is inconvenient
grows to a large size, sometimes it gives the feel
of fluctuation, when exist as an independent tumour
is not amenable to absorption. It can be turned
out with the fingers, sometimes deposited in
lumps met in back of neck these should not be
removed by knife amenable to absorption. By pot. sol
for long time, Iod. Pot 3 to VIII 3 a, 3 p vs. Causes
a compulsion. Bromate of Ammonia
5 grs does in the modern remedy, better be left
alone. Neuromatosis. Seen only of small size
but it often, and often times & cut nerves when
this when it has not been cut is of a very, & is
painful situated immediately under the skin
remedy is excision, when cut into for a completion
of fibrous character & often follows wound or blow of
nerves. If upon and of stump it is usually so much
irritated with scab, that a second cure is nec-
essary met in axilla, of forearm than in any other situation
Calcareous some be found about the neck.

Mammary like a cross adder

Cystic tumours. Rarest, simple or bar
comp or Pa. comp cyst. of glob form in scurf
- when for poor deep as per. bag or cyst from
thickness and greenish off hand or soil with
in the cyst, bag the matrix of the tumour, and
divided. serous cysts under skin in mammae
in tongue, testicle, when simple enough the
pencil encased with iodine or peris a ~~testis~~
mark as a chrom. abs. Mucous cysts com-
mon under the tongue called

in the recesses of obel brachy ducts, containing
clear greenish of mucous, & may give off a
off. pencil present connect to cysts of with
iodine, pass a thread thro, or incise. Synovial
cysts more common in what called ganglia
in sheath of tendons called windgalls in horses
eye of mangle. burst with the thumbs, or with bores
use lincin. of iron. joint is below than joint
~~house~~ ~~house~~ 43333 brought on by scabbing
or on elbow bursa inflamed & a synovial cyst
forms. Ho Rues about eye of apple upon Patella
or Ly Pat. occurs broken & wet with dropper

Look him & pass. If the do not die by the
up spec with a trochar & ring at a 5/8 in 2nd
Sanguinaria cysts proceed from my m. abn
hnd 2nd & water. Cullen's c. or ways
accord to rules of cond melich, as the non
scatomatous a fluid or solid matter, all eyes
for a pea to walnut either in or under skin
& non in papules & numerous. also solid
on head & back, in face & thin sac of fluid
under many outgrow, geobaceous follicles
these are rarely absorbed. sometimes discharge is like
like aphrons turn. if locally infected with keef
& suppurate & cause an intractable sore
excised and if person can. in excised matter
free over of skin don't cut the bag & then turn it
out. if large size potato, leave a little flap on
surface & may have to cut away the bag, about 1/2 in.
difficult to remove & has to die, with must of
Cullen. incise with one eyelid & then remove from
the cartilage. mark the cartilage & take the cyst
out but not through the skin. Proliferous g.
abn cystic sarcoma, Ray Proliferous needs
not with any finger in ovaries than any

when in cystic stage of chorion. Ovary is a
unilocular or multilocular, if late secondaries
seen from having many apparent or pro-
small, either in clusters or singly, projecting into
the cavity or found in the walls. Common
spreadable, met with in ovary, contents
are variable in age & contents, some-
times egg-like or deep red col. or pinkish with
increase common in age, & rise to no period
except to increase, most frequently in short
runs. This can not be absent, or more rarely except
in ovary, a mull may become multilocular
covers around the better... Culcarious tumors
& warts of polyp. Mucous of the simplest
or malignant. More common from polyp but not
& some from polyp warts, which at first
natural but - Corn Polyp soft smooth red
by size & met in nose cavity, extends near along
open shape, pedicle remains same size, be-
fibrous in structure, looks as cancer, vascular
at first cover with cut then rise above open
apex, base smaller deep purplish painful &
will bleed, met with in on face of old persons
apt to become malignant, about with vascular
can called polyp, In nose pulled out by force

in when mg. to cut off, pull down & put a nose
glaze on the double lig is exploded. but may
be cut off or stimulated to absorption. then with
glacial acetic acid & HCl, turn brown & crust.
3/4 10 Scrophulous carcinoma, under this head of
common disease, then called Kays evil. It come out
in various poses, peculiar. Lymph
& sanguinous mottled, face can lymph
blue eyes pupils dilated & tenderness of eye
greyish & even an eruption, skin fine & delicate
apart of the face. Sometimes look flesh florid
& soft. In child defecum of stomach, feverish
irritable & liable to attacks of diarr. May receive
in scrofulous it is quite the reverse, under even
winter, sluggish system, moral & intellectual
faculties blunted. Scrophul is inherited, some
passes over a generation, altho hered. it do
not equal well marked in Psch. Revolve
of circumstances, what are tends to lower
the constitution. It is also obs. to long
in of open & healthy parent & being greatly
exposed & scurified. Cut any common
& exanthema are frequent & cause are out of order

of the dis. Is phth. due in part cause
scrophula in children. Non-contagious
only from scrophulous father might come
to wife through the child. Presents diffuse
appears. product of soft little invigor
under the skin in the glands or, from milk
it seeds when eggs, called tuberculi. In
it come of molecular granules. These are
small round irregular pieces of pus, it is
connected & ragged edges contains granules
mixed with old globules & mixed with imper-
fect epithelial cells. It is incapable of generation
may remain quiescent for years, or degenerates
into cancer or softer scrophulous. For a while
can be deep on account of growth in the soft
tissue. In itself small it is a perversion of the
nutritive. Two forms, grey & yellow
form a small mottled tree in deposit in
the lung, yellow larger, seen in large masses
 $\frac{1}{2}$ - $1\frac{1}{2}$ in d. grey approx cordal & the yellow
an advanced stage & undeg. fully degen.
all extensible. infants & are more likely

5-12-14 gross external scurf: at part
external disappears & internal may come
it is much developed after part of external
Females more liable than males, In skin
in eruption, on scalp occasionally of
glans of neck, these become permanent
from deposit of sub-cuticle, progress is slow
if healing goes on slowly & finally it is superficial
& bumpy, on solution process is slow & imperfect
& a blue callous scars are left after the healing
is made it is deep in sub-cut all hair & in
long without any pain, then softer & from chi-
abcess. Symp. more or less of joint or liable to
be after minute sub-cut is deep, heads of long hair
in cancella of them, & cartilages & synovial
often in vertebra in fibro-cartilage sub, bodies
softer & finally cures. In progress the soft
parts cover become aff & pass down the spine
& from Psoas abscess or Lumbar abscess
Serious membrane the body, in lungs pneumonia
as a chronic all subject to see. Lungs more
frequent than any other. Effects of conal
in modern Surg. it has its acuteness

slow & indolent, wants the acute pain. Di-
ment. Prevent scurvy, form menses
special all to prevent develop of scurvy
a plain healthy diet, animal food egg milk
rice vegetables & some wine & beer
ripe fruit, wearing clothes, must be of air
well ventilated with sleeping rooms, when
it shows itself the cure may be helped by
in oxygen tent. In Pleth. men at the dose
of iron, but not well born & avoid as a rule
mild men on aliment canal, regulate diet
Bitter aper. some of iron, extract of ste
not acid. Dec. Sarsaparilla & ag. Cule. In men
or women, when a child born, soothing
plum-bell. protect from cold, compress
of 3 Loz Pot. & 3 grains at night sub
ing of lod. & Iron. Cod liver oil, with
pungent wine in poor if not well borne
3-4 gr. trach. dose of cod, Iodine given with
lodine of Potash is useful, Euc is lod-
chlorine solution of Pot. is given & about
this will cause absorption, the venous
be dissolved out even to fruit, blister of

very slow, if the stratum gran with cancerous
Hypophosphoric acid & slow & put even with cit-
ric acid & call chemical food

Malignant Tumors

1. M. we mean ^{all} such as when ^{usually} pass a new
life ^{trans} & escape by a ^{new} person & may be
1. on a spot, & 3. on which can be
all under cancer now, sub. Schismus
2. Enche or soft. 3. cotton or felt. 4. Mel
invis. 5. Epithelium & conclude with
disc. of Facial fungus & Lupus

Schismus or hard. The tongue by Greek P
is all open sign of hard. but limited to
the which tumor in cancer. This is seen
from 1. for firmness & can be hardness
not a brown mass. in neck of bands
interestable up with a light brown bull
sub, the disease from center of tumor. There is
in a tough consistency, when Sch is in
a small under a thin, cancer on surface
in in a dark star of the tumor. a good
variety oblong or sphen 700-1600 gr
by much or more much in 11"

by person or a quantity of milk juice
mother cells are met with, cell wall frag-
ment visible. I have observed in acute schor
late time of life, occurs in adre & marks
slow per. from, more vascular & softer
when attacked a limited organ body for some time
like the whole almost but soon it ends
it ends along the absorbents more rapid
than continuing & they are then, limited
though not admitted to size of sup-
longe breast. can spy on of them even
at glands per. ovaries, Ch. Sch. ra-
occu below middle period 40-50 sometimes
in younger persons. Mr Birkett 450 case in
20-30, 19 case, 30-40, 100 C, 40-50, 193 case,
50-60, 97, case, 6070-34 case & gradually
induces. Mon per in 7 than in M. per the
they of life may have something, Disperment
beast also in. In uterus more than cavity, drops
out of pts to Cameron's is more of suffer
the enlargement & under called into it is by a brain
bad food, unhealthy habit, & deep general
or may come on with out any local cause & in

more places than one, greenish yellow color
came Death. Contains Blood & sepsis of Melan
Fells of 2 semis deposit on pt, in front may
be concealed by the fat, on small waists one may
typical cancer shows a cracked end of integ
on it, knotted feel of tumor & great hardness with
in part to size retraction of the nipple, accoun
to concentrate contents of the mass & the buried
cystic cancerous. Pain as peculiar albu
lencolaty & painful to handle. With except of
cancer no cure. Remains greasy for a lon
time & indurative. When in a case is aff
per or secor, the milk at the & though abs
under derm leaves a cavity & it looks on
appear of numerous ulcers, painful, edges
hard, irregular shape, deep, scooped down,
spongy, peculiar dark purple bloody spots
hot very pain daily exult, hemorrhage from it
& excoors by the part down. Name & ridges
comes on. Loss of app, opp, ^{some of weight} breath, due sudden
It can in rapid if come a few case ulcers
under my eyes with little change, one
spot & excoors brilliancy of the bone & ar

ops to break on slight irritation. Cause, inter-
est. Is a loc or cont? so much as to blow
abscess &c. these can only be op as excy-
cure, there is a condition of system, & mode
of development of peculiar cells, breaks of
or app perfectly healthy persons, & may later
become constitutional. Treatment
no specific most fatal & intractable for
gonorrhea disease - no medicine can cure
nothing but complete removal & then recovery
will take place in many of cases, when not
when it can be removed nature ought to be
left if no doubt remains. The time reached he
often allowed the disease to extend when it could
not be removed. A late operation is worse
than useless, and unless cural formed has
been tried for cure, the most useful for palliat-
ion. we are of sol of chlorine as most useful
exposed to vapour of chlorine. sol Arsenic, per-
Oxon, cod liver oil, Iodine & Iodine of Pot
is thing to delay. Local our growth with corn
Hydroxy & both & it op leaves of late Carb & asch-
acid with good her. Flus & citric acid
by destroying with Chloroform with Sanguin
in a paste with flour of & a penny app.

when slight dress will cur. Remon, if the
head if it may be under a patch or remon
Briefly if it involve only the brain such as the
glend an not involved & shall occur in a less
painful form & its duration is shorter
seconds, can be able to get it long & is pain
less. When may be seen by curative & on when
may be called, with heron when imper
to move all no operation particularly treated
is sure to com into a fatal painful, neck
abscess. Chances of success are less if ulcer in
stage has come on. whole organ is removed
cut out & put in heat. Soft-cancer
is encyphaloid or nodular, fungus hematodes
This is like swelling of brain, is in masses
in fine membrane partitions, can be mistaken
as from, this is either some whitish or
purple, section exhibits numerous bloody
points, smooth like a cog. In any tissue
no firm interest, man. bones, eye, cut-
cell in, lungs, stomach, like hard lumps
helped by contiguous areas more or less
firm. occurs at all ages as a rule in white
life than hard, many of soft cancer often
appears resemble an abscess, I ch is hard

Lancker, Class of Foods

Class I

Alimentary necessary Food

Group I Mineral or inorganic

in soft. I take bone under eye, Med of
in coat in the eye. This is a mor fatal
dise in 2 years, when deep put and b-
to range a white thin ribs, new is uncelan
implicite enamel. Microscopic of cell like but it
not more mor fluid & less solid in bone, cells are
loosely packed & gather. This leads to open apertures
a soft substance it does so by absorption. Then become
blue, when it opens a soft purpus even shook out for
the opening. Each pore is packed ably, they are bleed
profusely, a symptom is a pale yellow complexion
in soft app conduct more confined to one organ
leading to exhaustion more rapid than chlora can
not more on the acute, a morbid conduct body, fall
can last flesh consist a weak condition, period of
life is short. no more all last app useless
to any amount of disease before they are given. as if
followed by relaps. the bone is attacked at a mor more
open and in the last days.

Classification

Subkingdoms

Classes

Acotyledonacea { Thalloginea
Acroginea
Auoginea

Monocotyledonacea { Endorhizea
Exorhizea
Dictyoginea

Dicotyledonacea { Gymnoginea
Hypogynosa
Epigynosa

Obstetrics

26/10/70

Ballotment, this is an exceedingly valuable method, it is of two kinds one external, when only the perineum with its recurrent or external pouches the form of the most delicate should be placed in bed in a semi-recumbent position as to make the axis of the uterus & to the uterus low down in the pelvis. Advise that the bladder & rectum should be open, the index should be used but the vagina & apophysis of the cervix is the perineum and lips & perineum, be careful not to enter the vagina, the other hand, may feel the abdomen, a deep inspiration of the patient, when it has been taken a rapid gash is made against the uterus with the fingers, if a foetus is in a head body will recede from the finger & will pull back against the finger with a gentle pat. If she is standing the index finger should be used as a lever with great working forwards, in making the blow, it should be given from the perineum upwards. External Ballotment - the perineum is placed on her side or side of the bed when the abdomen projects beyond it, the hand placed on the

ending belly & other above, if feet are a sudden up /
lower hand properly the pelvis up & it will gain
descent on the other hand. Differing mode is as
4y gestation & the place worn on side with hips
rare on on dress with short depressed the ju
is above the pubis. The period is between end of 4 - m
of 6 months but will vary according to even birth of
feet, amount of ligament, towards 7 months it is
most clearly recognized no longer pierces at beginning
of 8 or end of 8 months as feet are too large, were pro
spectively of little room in birth canal

Signs of anomaly abd, sounds of fetal heart & when
suffice. First applied by Meyer of Gen in 1818 of
death not out of per but life of fetus, come for months
the fetus has been compared whether of watch made a per
more frequent than mother's pulse, 100-160
often accelerated or diminished without any obvious cause
per unwell as age of child. The rate is alike at all per
of fetal life. It has a metallic quality in some cases
The interval is much as the period of gestation, at first
light & feeble stronger as gestation advances
space well up of 3-4 inches. also exist one spot
where max exists. May be heard most frequent

low wall over saw in median line
on lumbar regions & in neg. quadrants. scars
I suspect most poor when sounds are central
if sounds are equally audible at opposite ends, may indicate
twins. rate of pulse should be up & such compare with
maternal pulse; they are never synchronous in twins
the pulsing not be heard although the child is living
child may be small feet weak. This lying on her back
change her position in course of 4-5 months
The value consists in its being over other signs
be recognized & 2nd & 3rd in being when her decision of position
when not heard not to be considered as non-existent
of period of pregnancy. Certain precautions bowels
she, turned down of. As in which case
she should be in a recumbent position in shallow abdomen
& nothing when below it & the abdomen a few inches in room
& is also common in upper region. Uterine souffle
is this before any other. most seen before 4th month
and when uterus becomes an abdominal organ
not well by as per abdomen, in a part which
near pulse & ascends from waist & back seldom
in fundus uteri or lumbar region, & some a hour or
some a cold blowing over both & covering or exposing

On musical, compact & distant sound of the sea at
some far or near distance, this synchronous
with radial pulse of mother. When pulse can
it is thought to be produced in walls of uterus. 1st
the same sound has been heard in fetal turn of gut
2nd the often heard of whole surface of uterus, present
for a short time after delivery, heard when peritonitis
fetus has been born. Upon in case or none of the
drugs when present in minor when as it presents
in its position, press should interrupt the murmur
as a sign of press is extremely valuable. If child be
in up any long would become interrupted or
suspense of breathing. No proof of life of fetus
1st should remain before end of 3 months, you have no
organ or sign on which you can place of placenta
from your own cups or contour of menstruation, bit
of heart & aorta, stomach & vas. uteri. But, when
of organ is distant abdomen may be present or when
rough or the sign be conscious of placenta seen as
at 2nd in 4-5 months in addition to the from your
chest may be of abdomen. The ought to be now well dig-
nitely as before to determine if morbid may be felt by
mother, the song & beat-beat in & in or burst.

column & dark abed in, & baddiment. As it is much
the shape & circula fully formed - middle eye sec
arole, a 3 in 6. & suber month der of abd size
of the tumor with young and diff pt of child long
wanted rec with ear surface, after state of os. & schoolend
centre. In ^o An unusual rule, to collect by, possible
for of before me promise an opinion ^{3/10/70}

Duration of pregnancy

imp medico legal bearings, by English laws
It is now 9 calendar months or 40 weeks, not
exact for a few days. with 273 or 275 - days
280 days or 40 weeks. two questions for
1st is period of human gest fixed at 40 w
2^d if not, what is longest & what shortest
in which a living child can be born
40 weeks embraces a large number of cases
but as it never is exceeded, gestation is not fixed
40 weeks, what is the longest period of preg? Simpson
in 38 cases durat was 37 weeks, in 75 it was
38 weeks, in 122 it was 39 weeks, in 192, it was 40 wks
173 it was 41 weeks, in 99 it was 42 weeks, in 63
it was 43 weeks, in 20 it was 44 weeks and
upwards from 302 - 326 days Simpson, 1845

336 days & 22 of 3, these result to long gest.
infrs from gest of lower animals. Cows 285
days, Earl Spencer found some duration in cow
as in human period, in 391 cows 243-301 days
were the limits, length was 284 days. In mares
considerable variations occur, the law is that
"the term of gestation is not fixed but variable"

Dr. Meigs has a case of 413 days, Mumps 357
days, there are remarkable exceptions

What is the shortest period? This has
given rise to much discussion, each $4\frac{1}{2}$ m

& lived to 80, 10, but doubtful. Chr on 167 day
or $5\frac{1}{2}$ m & live 8 $\frac{1}{2}$ hours, Leshm, at 25 m

or 175 day & live for a weeks, Mr Fair relate the
fact Chr on 171 day difficult maintain the live

live for 4 months & she of measles, Moulton
tells she that poor to 80 day of seldom live

but after that it may live. Duration mumps
is 1st that it is not fixed to 40 week. 2nd

that longest period is uncertain, it exceeds
300 day but not defined. 3. shortest is 171 day

when extreme care and attention are at
at 180 day more certain. So calculate

duration time of conception must be determined
2 modes 1st is to calculate from ^{last} menses
9 months or 40 weeks, this has advantage
of being general in application, but liable
to error from uncertainty of exact time of
conception. Most reliable time is during men-
struation. In calculating a mistake of 3 weeks
in order to avoid error the middle point of cat-
amen period is taken. 2nd is to date from
1 sensation of quickening at middle pe-
riod or 4 1/2 months after menses cease
Cause why it should be 280 days, it has been
referred to development of body of foetus.
State of pelvis & cervix uteri, Sharp, thinks
every cause is change going on betw
uterus & decidua lining which lead to part-
urition the effect is separation between uterus & decidua.
Diseases of Pregnancy. many condi-
tions in this, many ailments an exagger of
symptoms of pregnancy & arise from symp-
athetic morbidly, morbid condition of uterus
direct effects of mechanical pressure displac-
ement

retain good sam ofl open of Balthus salt
a pouche con grt Balthus & $\frac{1}{2}$ gr of morph
Salicin is used in dr 3-5-grs. Cocaine in
1-2 dr in paste made with bread crumbs
Simp rice sallogrenum, but - 12 grs. & Balth
2-3. 2 gr Nit Cer. 1-gr Distrit ofher, with
without $\frac{1}{2}$ gr of mor, 1 gr of Balthus & B
Chlorofo 3 dr in small ofpense dr in
42 gr Lithu ch in A. B. V. & simple $\frac{1}{2}$ 3
42 gr Bica Pot, & a tablespoonful of
mixed, Champagne & bottled cider good
form & namea when used may be useful
uterine comulment or sacrum, or open
mycham. with rectum & vag. Balthus
13 & 3 of length to comulment, then much
pau in spigachio pr with peev, a few
beches to put of stomach. useful, or
bleed from anus. Comulment to spigach
the Bion, or large poultice sprinkle with
Junct opii, quiet & ables, diet of lightest
Bion in small quantities & when stomach is least
irritable or enervated, the cod-liver oil in emulsion
when all pain & debility cannot be arrested, then long
abstention of the ovum do not delay till too

late a period. No choice between life of child & life
of mother. Depravation of appetite in some better
than at other periods in general it fails & pers
a nut in whom a peculiar aversion to articles of
food and a morbid desire to repugnant which
alkaline and osaline nature other simple &
tannables & sometimes disagreeably empothefies
and sometimes anxious to Mucormaria, these are
accords with disordered stomach, long loads
emulations of plain food. Inf can & pers
have been found after death, indulgence with which
prognat work is treated cure these desires to grat
yes, this is wrong, oppose firmly. If agreeable
to some kinds of food let them avoid. Little medical
is needful & must be careful of period of pregnancy
bowels. Rerregula & Inf Calumba, 4 of men and
dye & pers an useful, If each could do 10 grs
of Rerregula. 4-8 grs. Inf Calumba 4 grs. Rher
dies bland & nutritive, As most fauces & abate
in 3-4 months you may combine with

Pyrosis. This must with in later half of pregn
any reflex irritate of gravid uterus on the
mental amount. derang bowels & certa

articles of food. complaints of burning pain
at pit of stomach & eructation of bitter fluid & some-
times sometimes occurs, no constipation, dis-
turbance. In severe case distressing great.

Treatment when slight. change diet. look
into state of pit of stomach, dose of Lino Mag
makes acid benefit of antacid & medi-
cine. Magnesia calca 3, or sp. annu. 3 Ir,
Cine aqua 3 Ir. Apr. 5 Ir. In or thin table
spoon, antacid table spoon of pure water with
milk. x. xv min of Potash in barf water, show
antacid feed use acids & doses of acetic or mineral
acids. bowels attended to in all cases & laxative will
be called for, pain in some case & severe gas
operate, blister to pit of stomach or spirit
plaster to epigastrium. Croup in stomach
& duodenum. Do this called all but to the
concerns of croup like pain in stomach
& some cases abortive. Causes derive from
of bowels. errors in diet & mental emotion
or bilious calculus; Full dose of Fer. Op. xv.
Chlor. Alth. xxx min will give relief & then
remove the cause. Aloetic purgatives

It may excite action of uterus & umbilic. pils
which may be present. a Billa plan or usuf
over the stomach, heaves to epigastrium, Sore's
in intervals. prap of stua. Int m acid & Suf C
x m to $\frac{3}{4}$ inf Cdm. Constipation this com
in prap. said to occur more in bilious than in
bilious. days vary in ordinary cases the
or for days in excess or for 1-2 3 weeks
amount is small, in 14 parts causes not to any
act of genital system & dms may of rules
2 mns of diet 3 prap on the stomach,
4 pr of vesicles of chile on gut; or 5 - cramps
are for more & probably of uterus, 6 legs, &
indolent habits of Prap worse, In slighter are
pet complaints of uneasiness & dis comfort &
headache or absence of menses & fluid shed in
small quantities. In may only where con is long
the course of headache or dullness & dis comfort -
sleeplessness unple. dms general uneasiness
in the abdomen, stomd disturbed appet dms
vomiting occurs, pains in abdomen & fluid vom
mixed with hardened m, pains may be much
for labour pains. Hemorrhoids occur in these cases

should this continue till labour it will be danger-
ous or peritonitis my anise & peppermint per-
alery slight constip in periancy, to make
per my be relieved & castor oil or Poul Rhe Co
& after this can give daily a pint warm water
or fruit, after evacuation on a larger one
will be in Dec of Oak ba³ & poppy heads
& much be obtained, & in small quantity or
Dec of Cinchona 20 in Tanderin, this may
be sufficient, Comp Limes & aperients
Ex Sarsaparilla }
Ex Gentian } 40 grs
Com Rhe Pith }

But Iron 20 grs. do with 24 or 48 Pills

Two night and morning, they act efficiently,
or Ex Sarsac Comp Rhe & But Iron 20 40 grs
divided in 24 pills. When false pains occur give
5 grs of calomel followed with 10 Recit & a
Dose of 4 or 5 & chloroform. An anem get
& open. If medicine is unfruitful, do it artfully, this
should be dropped out softly with water
Diarsheea los peristaltic present accompan
& in some cases an absence of it presence

actly the N.S. as mental motion, and, except a
hopeless bowels. Givenness of acute fevers are most subject
program enlargement of the etc. & enter who end a
mass much & it avoids the pla. occur. Given Exuberant
mental motion, flatulence, difficult respiration, more of the
motion of the blood change plentiful, or organic area of heart
as size for slow pass place in most most any & if robust
a small quantity of blood on if delicate or anemic person
and a cure in val. avoid spec. Chlo. cells or anemic. clun
cut 2 or 3, pass of person more in down, state of digest-
ion regulate diet - light nourishment little food in morning
head raised & pillows in the night - fatigue avoid

Syncope or faint, most for at givenness & occurs at all
ages, in those who do not suffer from nervous disease
during paroxysms, usually, & delicate women, induced
cause disturbance of cerebral circulation. 1. Movement
of fluids. 2. Great of altered mental motion, great extent
of the system, or various heated rooms also induced of
anemia & plethora. Burns of the face has met with a
partial syncope in early stage. 3. Great pain in some
to head & so & all over can be blown over the face, loose
the eyes, spontaneous vomit for face, for some stimulus
can be used, vomit. 4. Insect bite, poison, by near
the face & use the friction, between attacks of
an & moderate re. bowels 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 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1015. 1016. 1017. 1018. 1019. 1020. 1021. 1022. 1023. 1024. 1025. 1026. 1027. 1028. 1029. 1030. 1031. 1032. 1033. 1034. 1035. 1036. 1037. 1038. 1039. 1040. 1041. 1042. 1043. 1044. 1045. 1046. 1047. 1048. 1049. 1050. 1051. 1052. 1053. 1054. 1055. 1056. 1057. 1058. 1059. 1060. 1061. 1062. 1063. 1064. 1065. 1066. 1067. 1068. 1069. 1070. 1071. 1072. 1073. 1074. 1075. 1076. 1077. 1078. 1079. 1080. 1081. 1082. 1083. 1084. 1085. 1086. 1087. 1088. 1089. 1090. 1091. 1092. 1093. 1094. 1095. 1096. 1097. 1098. 1099. 1100. 1101. 1102. 1103. 1104. 1105. 1106. 1107. 1108. 1109. 1110. 1111. 1112. 1113. 1114. 1115. 1116. 1117. 1118. 1119. 1120. 1121. 1122. 1123. 1124. 1125. 1126. 1127. 1128. 1129. 1130. 1131. 1132. 1133. 1134. 1135. 1136. 1137. 1138. 1139. 1140. 1141. 1142. 1143. 1144. 1145. 1146. 1147. 1148. 1149. 1150. 1151. 1152. 1153. 1154. 1155. 1156. 1157. 1158. 1159. 1160. 1161. 1162. 1163. 1164. 1165. 1166. 1167. 1168. 1169. 1170. 1171. 1172. 1173. 1174. 1175. 1176. 1177. 1178. 1179. 1180. 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2011. 2012. 2013. 2014. 2015. 2016. 2017. 2018. 2019. 2020. 2021. 2022. 2023. 2024. 2025. 2026. 2027. 2028. 2029. 2030. 2031. 2032. 2033. 2034. 2035. 2036. 2037. 2038. 2039. 2040. 2041. 2042. 2043. 2044. 2045. 2046. 2047. 2048. 2049. 2050. 2051. 2052. 2053. 2054. 2055. 2056. 2057. 2058. 2059. 2060. 2061. 2062. 2063. 2064. 2065. 2066. 2067. 2068. 2069. 2070. 2071. 2072. 2073. 2074. 2075. 2076. 2077. 2078. 2079. 2080. 2081. 2082. 2083. 2084. 2085. 2086. 2087. 2088. 2089. 2090. 2091. 2092. 2093. 2094. 2095. 2096. 2097. 2098. 2099. 2100. 2101. 2102. 2103. 2104. 2105. 2106. 2107. 2108. 2109. 2110. 2111. 2112. 2113. 2114. 2115. 2116. 2117. 2118. 2119. 2120. 2121. 2122. 2123. 2124. 2125. 2126. 2127. 2128. 2129. 2130. 2131. 2132. 2133. 2134. 2135. 2136. 2137. 2138. 2139. 2140. 2141. 2142. 2143. 2144. 2145. 2146. 2147. 2148. 2149. 2150. 2151. 2152. 2153. 2154. 2155. 2156. 2157. 2158. 2159. 2160. 2161. 2162. 2163. 2164. 2165. 2166. 2167. 2168. 2169. 2170. 2171. 2172. 2173.

Emetic's 3/11/69 W. J. G. L. L. L.
 Zinc sulphate

Specacchara as used in med. consists of the root of a little plant called *Coffalis specacchara* grown in Son Amer prnc in Brazil. only the root is used in medicine when dried it is about the size of a quill, slightly notched looks like beads strung on wire, hence it is called *accumulated specacchara* consists of the old corky portion which is the ^{central} *cortex*, the woody or inner part is inert. It breaks with a clean fracture colour dark brown or blackish sometimes reddish tint. The plant is a small shrubby one grows in moist shady places. reduced to powder it is of a buff colour. It belongs to the natural *Pyrrhonia* shrub from 1-3 feet high. Corky part is easily reduced to powder. The floating particles when ⁱⁿ ground sometimes produced spasmodic asthma. Some of the prop. are extracted by alcohol & boiling water is an allusion called

emetic, it was supposed to be in composition
with an acid ipseac. acid; when pure
it is a very powerful emetic. It is a white
powder, odorless, very soluble in boiling
water. in commerce. An ounce

dose of pure emetic $\frac{1}{2}$ g to gr $\frac{1}{2}$, but
varies according to the purity. Ipseac. has
been highly recommended in certain forms
of dysentery. $\frac{1}{16}$ gr of pure emetic has been
known to produce severe vomiting.

Principal effects of ipseacare produced through the
8th pair of nerves. pure emetic is 3 times as
strong as impure. $\frac{1}{4}$ gr of emetic is as
strong as 20-30 grs of ipseac. in am.

Powder ipseac is locally irritating, capable
of producing irritation of skin for considerable time.
It is slow in acting & hence not valuable.
Powder ipseac taken in small quantities
produces a tonic in indigestion. In too
large quantity will produce irritation.
 $\frac{1}{4}$ - $\frac{1}{2}$ twice or three a day before meals is
a most useful when food lies heavy on
stomach. small dose even stops

excessive vomiting arising from other causes
In very small dose it proves alterative as well as
laxative & has an influence on the skin
dose for alteration is from $\frac{1}{4}$ - $\frac{1}{2}$ J. diss.
one advantage in using it as an emetic it soon
produces vomiting & is soon thrown out
if it is given in excess; ordinary dose for dysentery
20-30 grs if the dose is thrown up repeat in an hour
large doses seldom produce vomiting unless there is
congestion. the large doses should be repeated in six
hours. Spec is highly spoken of in treatment of menorrhagia
& epistaxis. some speak ^{of it} in uterine hemorrhage. It is
of use in haemoptysis it was recommended by DeGraaf
but not so good when general prostration & pyrexia
is required as far as emetic
dose for emetic from 20-30 grs. given at once
dose & repeat. sometimes you will find patients
who will vomit at $\frac{1}{2}$ gr hence advantage of giving
it in divided dose 1 dose for infant $\frac{1}{2}$ - 1 gr
as nauseant for adult 1-3 grs & repeat every
3 or 4 hours. Some of Spec made by mixing
1 oz of Pul Up in 2 oz of wine. Emeticos 1 oz
not often given. = baby 2 grs of Pulv Spec 2 $\frac{1}{2}$ to 3

more frequently given to children smaller dose
of brown lps 1 D = $2\frac{1}{2}$ grs of Palo. brown lps
is more frequent as expect & nausea
10-20 min for adult for child 4-5 min
Syrup of lps. is twice as strong as last Pharon.
= 30 grs to oz form it was 13 grs to oz this
made even 7th ex got with syrup of m
2 oz being mixed with 20 grs ^{of syrup} to ex in dose for adult
 $\frac{1}{2}$ D in 1/2 dr to dr

1 corn pill of corn ^{or lps} Pil conio cur ~~ex~~

Pill of lps & quill 1 - 7. Corn Pils. Pow small

Corn Pils. Powd of lps Doves pot in 10

Brown lps 22 grs to oz

Droches of lps cae $\frac{1}{4}$ in each

morphine lps cae $\frac{1}{12}$ gr in each

Doves pour 1 lps 10 grs dose 5-10 grs
child not more than $\frac{1}{4}$ grs xps in 4 hours
lps is usually followed by powder on upper
part of mouth is crystals white. impure this
has sweet deliques in air. bright yellow colour by
addition of nitric acid

Galeurium some call Indian Plant
not in B Ph but in all American works
that ord Rosacea. small shrubby plant
west coast & Utah ^{two} trifoliate & ~~spurred~~
~~leaf~~ is used in medicine its roots like ipec
not to deeply mark transversely. it has a
slightly reddish tinge. wrinkled longer more
than ipec & trans. less generally appear
very annular. consists of a thick brittle
reddish cortical portion & has the same
woody cord as true ipec. taste is bitter
& disagreeable but not acrid. water
extracts its principle. Galeur is known in
small dose & emetic in large ones
not much employed in this country
emetic dose is 20-30 gr. tonic dose is
2-3 gr. expect dose 2-3 grs

Pangium

that ord Passeracea root is used in
medicine. small perenn. plant sent
up a pale white flower. about a thick
little fringe irregularly contorted with porous

roots attached to it. when fresh it is in pieces
2-3 inch in length. abounding in an orange
coloured juice. when dry changes its colour
to become orange red instead of bright red
the powder is red. odour is somewhat mar-
catic. water & alcohol extract its principle
a compound in alkaline. ^{augustinian} it is obtained by
digesting the root in pure alcohol & filter
through animal charcoal. it is an
active emetic with some narcotic properties.
local irritant. taken in moderate doses
it excites the stomach & increases the
the activity of secretory organs. in full
doses it vomits freely & harshly. not often
given as emetic by physicians more in fun-
use, used as an expectorant by Phys
it may be held as much inferior to puke
dose for emetic pur 10-20 grs dissolved in water
as a nauseant from 1-5 grs

emetic dose of infu 1/2 oz 1/2

emetic dose of extract 2-4 3

given in chronic affe of lungs, not highly recommended
as an emetic, vomiting severe hard and excessive

Euphorbia nat. ord *Euphorbiaceae*
two species grow one *E. ipseacum*. *E. corrida*.
flowering spurge. milkweed. both found in Canada
& U.S. roots penetrate deeply into the soil much
indurated when fresh, yellowish & later
interior with the modern is slightly sweetish
& cold properties. water & alcohol, large doses
both vomit & purge not safe in over doses as
ipseac emetic dose 10-20 grs dose of 5-6 grs
act on bowels. 1-2 grs as nauseant.

Lobelia inflata
belongs nat. ord *Lobeliaceae* Indian tobacco.
It is indigenous to C. & U.S. flower and fruit
small plant foot 6-8 inch in height, flowers
leaves scattered small & far between, corolla
delicate blue colour, quite small, present inflated
capsules holding seeds. seed in shape sometimes
like an almond. marked with long line & cross
lines. whole plant is a stim. seed twice as strong
as plant. in pressed cakes in shops. powder
is of a greenish colour. taste like tobacco. requires
Gr 2-12 act pm *Lobellina*. a powerful sedative

more is than emetic. one drop to a calf render it motionless in an hour. It is a slightly red oil substance, when pure it is yellowish or a acid soluble in water more so in alcohol. alkaline reaction forms salts with acids at 100° it is decomposed. not generally used in medicine in its isolated

Powder Lob is locally an irritant but on vascular and nervous system it is sedative. small dose it is nauseant, larger doses narcotic properly in large doses as an emetic. In overdose it is a violent poison. Like Loba when it vomits it is not so likely to prove fatal. Poisonous dose is not definitely ascertained, needs twice as strong as rest of the plant. death usually takes place by asphyxia. a $\frac{3}{4}$ ^{of powder leaves} has been known to kill a man vegetable astrinents thrown down the active principle nit falls. green tea & green u. could amount counteract the deleterious effect in persons frequently given for relief of spasmodic asthma not very safe as an emetic. given in dose of $\frac{3}{4}$ gr it may always produces vomiting. if inflammatory affections be present with asthma use depletion before giving lobelia

in dyspnea while will afford relief in whooping, and
it has been highly recommended, also in croup,
strangled hernia, to dilate the os uteri.

It will sometimes fail to vomit, it produces
more depression if it does not vomit
dose for emetic 10-30 grs give in small portions
& repeat dose of Iunct 3℥ emetic dose of powder
one or two papers 1-2 grs Iunct 20-40 drops
nauseating for adult 3℥ for child 3-5 grs

Iunct is made by mace $2\frac{1}{2}$ oz of $2\frac{1}{2}$ ^{6 powder} in 1 pint
of rect spirit percolate & pass spirit
through. This has strength of $54\frac{1}{2}$ ^{grs} to oz.
a drach^m = $6\frac{13}{16}$ grs not quite so strong as old time
altheal tinct made same strength as alcoholic
made by macerating it in alth for seven days
same strength as alcoholic dose 8 m to 1℥ drachm

Penega

formerly given as an emetic, properly an expect-
orant, severe uncertain in action in cases
of croup it is said to be useful & changes
character of inflammation more recent

Iobacca is sometimes given as a
naetic, but not much.

9/11/68

Squill (*Scilla maritima*)

sea onion, part used in medicine is the bulb found on shores of Mediterranean. leaves long rather fleshy pointed. Plant sends up a long slender flower stock green pt is the bulb dig up in autumn fresh bulb is pear shaped, concentric layers like an onion. outer thin scale most reddish average size of bulb 2-4 lbs some 10 lb. two kinds white & Red Squill, white is generally preferred when dry it is yellow whitish brittle per se strong attract for moisture, tough leathery, pasty, ~~powder~~ has. Squill is modest but an acrid nauseous bitter taste. active in an alkali, crystal. by head, Scillitin. In large dose is an acro-narcotic poison as small a dose as 24 grs has been known to produce death, an emetic & generally causes vomiting painful & long continued. The prep at Acetum Scillae, Pillul Ipec Ipec Ipec Squill Iunct Squill. best solvents are alcohol & vinegar. vinegar is the basis of the other preparations. dose of pow 6-12 grs for an adult

not an admirable emetic. Powder Squill
is most useful for domestic ^{purpose} dose not less
than from 1-2 grs & repeat at short intervals
as it passes off very rapidly. It promotes a
free excretion from the kidneys. I met
isma mac 2 1/2 grs of Squill in 1 pm for
seven days dose is exp & dim 10-20 m
not used for

Part Emetic

11/11/69

a specific emetic &c. it requires to be absorbed
this preparation for preparation see 15 Pharmacopoeia
20grs should dissolve in 100 grs of water at 60 without it
with Sulphur by it gives a yellow precipitate
Indication when given is in for a transient stomach
relaxation crystals. It is sedative to the system given
reduces the pulse & lessens the temperature & minute
respirations. to produce these effects it is not
necessary to produce vomiting. It is believed that it
acts on the secreting organs. Ransom was in
habit of giving large doses in inflammation
when given in as full doses as the system will
bear without vomiting it reduces the pulse
from 120 - 30. occurs if difficulty occurs
in establishing tolerance mix with morphine
antimony when given freely impoisoned as the blood
as mercury but not in moderate doses. Aconite
is an apore diaphor. in high fevers when opium
is contra-indicated. Inflammation a valuable
remedy sedative to the heart. Give simply as
an emetic it is good in early stages of disease when
you wish to disturb the system. in gonorrhea &c.

When we wish simply to evacuate the stomach some
other emetic should be given. Large doses
of inflammation have sometimes produced fatal
results. In children the operation from free dose
of antine is very great & always should be guarded against
local effects. That of an irritant, & is for used as a
counter irritant. It brings out peculiar pustules like
cow or small pox, a very useful form of counter-irritant
does not apply the vomiting. It is absorbed in face
as sloughing, sometimes occurs in children
is sometimes produces severe results. Internally
in large doses excessive vomiting, listless, feeble
pulse, cramps, convulsions, delirium
purging inflammation of mucous membranes
childrens terminate in death before the
second day. The results are extremely like
cholera. In cases of poisoning, give
me & give vegetable as tincture, tartaric
acid tea &c. the tartaric acid must be
removed as if absorbed this prove as
fatal as the antine. In apoplexy give the
stomach, give water & lay. For em vomit
of injected into the veins. in cases of

cholera by it often expels the obstruction.
vomiting is also produced if it is injected
into the rectum, and if applied to a distended
surface. It acts upon the child at the heart
It is the most effective agent in aff. of liver
for relaxing the muscles, in hernia, distended
medium dose for infants from 2-3 grs but
it is better to give it in smaller doses but should
not be given in doses larger than $\frac{1}{4}$ - $\frac{1}{2}$ gr
and repeat. better given in water in solid form
it sometimes produces severe irritation,
as much as is given with effect, 2 or 20 grs
Bismuth Antimony. Small dose of 3 grs best for
children 20-40 drops
2 grs to

Sulphate of Copper

one of the best & most active emetics we have
conserve in large quantities, used in cases
of poisoning, no depression follows. small dose
emetic & astringent. larger doses emetic
& still larger order only conserve. not often used
as a tonic in diseased condition of stomach

but in inflammation of bowels chrome diam-
sulphur is resorted to as an alterative. stimulates
the ulcerated surfaces much more reliable
than nitrate of silver. a chronic enteritis
could in cases guarded with opium give more
relief than any other medicines. opium
to prevent the copper irritating the stomach
this sometimes obtained none of the processes
of separating silver from gold the largest
quantities are sometimes obtained in this
way. this is in form of fine, large, deep blue
crystals, inodorous, hard & brittle not
at all taste soluble in water not so in alcohol
offensives ^{slightly} in air, on addition of ammonia
a ^{precip} ~~sediment~~ is first thrown down & dissolve
by a further addition of ammonia &
they assume a deep blue color. the am-
monio-sulphate of copper. it is incompatible
with alkalis. astringent vegetable
solutions, very highly prized by some in
obstinate intermittent fever but
the hopes have not been realized. some
thought that it would replace quinine

It gives tone to the nervous centres & in this way assists the action of quinine. $\frac{1}{2}$ grs gr 3'-4 hr actg $\frac{1}{4}$ gr $\frac{1}{4}$ op $\frac{1}{4}$ gr 6-2 grs of Pk as an em in cases of marabout poison but care must be taken. if too frequently repeated & not evacuated it convuls violently. if return without producing vom do not repeat but resort to other emetics. dose as an em not repeated more than once, and don't wait long after the second dose but use the strong light recem in membranous cramps. it acts immediately & violently. Emeth dose Phil 1-2 gr 18r; 2-4 2; 4-10, 3grs forms not a very certain thing in cramps. the more removed of pale membrane does not cure the cramp. the formation must be stopped. It has been used in baldness as a wash to the head sub per in

pr $\frac{1}{4}$ gr 48 hr, oz of Brandy
dos emetic for adult 2-3 grs, 18 Par 5-10 grs
as a tonic & stringer alternate $\frac{1}{4}$ - 2 grs
in ulcerate of stomach much more reliable than other
Two kinds of poison produce by copper & metallic cop
is not poisonous unless acid is in the stomach

Salts of copper are all poisonous to a greater
or less extent. acute or chronic. acute
from a large dose. chronic small doses
for a long time. acute presents local
& general symptoms, coppery taste volu-
menty, griping pain, cramps, convulsions
local in consistence of admiⁿ of albumen
milk, or wheaten flour. which has
been recommended
sugar has been proposed. but is not
not to be relied upon. animal charcoal
is only a protector of the mucous membrane
but perhaps it also absorbs part of the copper
Drugs have been rec^d in these cases
their action is slow... In chronic poison
we have emacia minus we have ecch^m from
mouth. a chura red of green at the
beeth purple edge. we have not the severe
which is said that we get from acute poi-
son gastritis & chronic diarrhea. sometimes
results from small doses of copper. but more
frequently from the use of cooking in copper vessels

Sulphate of Zinc

15/11/69

It is spoken of by people who believe not pure sub Zn
an impure form. made by dissolving pure Zn in
SO₄ when pure in form of small white, roundish, crystals
like sulph magnesia. It has a peculiar styptic metallic
taste. It has no smell & efflorescence. It is soluble
in hot & cold insoluble in alcohol. Not a poison
in large doses but it acts so quickly that it has
not time to produce fatal results. Give mild
diuretics, soothing agents, warm milk. albumen
It has been highly recommended in ulceration covered
by false membrane. It should be applied soln 15-20 grs
to 3J with camel hair brush. once or twice a day
a weak solution is useful in throat. in chronic dyspepsia
indigestion in rectum sub Zn injected is useful 20 grs 3J
in some cases of chronic diarrhoea it is useful given in full
It is frequently used externally. useful in gonorrhoea
1/2 grs to 3. It is also used in leucorrhoea
2-5 grs to 3 of rose water good for piles. acts promptly as an
astringent. less corrosive than sulph copp. effects are soon
over. produces the current vomiting of many of the emetics
recommended morphia to remove false membrane
as an alterative & tonic it is useful in some nervous

disorders, as hysteria, chorea, in night sweats
in consumption it is useful. 18r to 4 rti hyp occ
in form of pill, after stonic dose 1-2 grs with
quinine or opium emetic dose 10-30 grs maximum
dose has been in narcotic poisoning, don't repeat
more than twice, the given in water, dose for smaller
children $1/4$ $1/2$ gr every ten minutes

Yellow Sulph of Mercury

this is not in Bor Pharm & it would as well be left
out in other treatises. It is in form of bright yellow
beige coloured powder inodorous insoluble in
water, when it acts it does so gently with little
prostration. exceptions to this, it is an antiseptic
when not thrown up completely it is apt to
produce salivation. It has been recommended
as an emetic in scalded testicle. It has been
recommended as an emetic in dyspepsia & in
indigestion, small dose 5 grs child 2-3
in over dose a corrosive poison. It has
been known to produce fatal results

Alumina

It is a double salt - obtain from alum or
is obtain in Naples as an efflorescence on
the soil, alum stone is found in large quantities
in Italy, it furnishes the purest alum

R. Ph. give again alum and of potash alum

It is made by adding Sulph. Alum. to Sulph. of alumina
It resembles the potash alum that you could not
tell the difference, highly recommended in many cases
by Doanys as the best and safest remedy
in this disease, very prompt as an emetic

It has been recommended in whooping cough
and may be given with decided benefit but must
not produce vomiting give with some aromatic
in lead colic this is ^{full} useless its action is not known
used as a local agent in many cases in Epistaxis is 13-
20 gr. to 3, in piles singular, leucites in hot water
solution, in uterine hemorrhage, aphthae may be
box as irritant & p. p. very useful in narcotic
poisoning. emetic dose 3 gr child 3

Purgatives 18/11/69

Usually classified accord to activity
mildest called Laxatives
considerable energy Purgatives
act violently Drastics

Subdivisions. Cholagogues & Hydragogues
a good deal may be done by modifying the dose
or combining the medicines.

Laxatives operate with gentleness, pain occurs
it results from either undue distension
or contraction. The bowels are loosened rather
than purged by laxatives, they increase
the mucous secretions. Purgatives act
vigorously on the bowels but are not likely
to produce excessive irritation, they may
exhaust the system from the depletion
which results. Some purgatives have
a directly sedative action some on the other
hand have a tonic action. More active
drastics are depressing to system
Hydragogues are those that produce watery
evacuations. applied to saline as well as
drastics. Among the Hydragogues the

drastics are the most powerful. giving
very often results both from laxatives & purg-
atives. by spasmodic contraction, in
laxative often from distension.
in Drastics ^{both} from violent contraction
and irritation of mucous membranes.
Thus griping should be relieved in laxative
& simple purge may be relieved by combining
with aromatics, ~~in true purgatives~~
In drastics aromatics will not be suffic. combn
with some narcotic or sedative.

Cathartics constitute the most valuable and
important class of medicine.

Purgatives alone cannot be relied upon in constipation
the habit cannot be overcome. should always
be associated by other medicines. In treatment
of constipation diet, exercise, & attending nature
will always remove constipation. Useful in cutting
short inflammatory infections. principally on
the reclusive principle. In very low fevers very
active purgatives should not be given. Rhubarb
and aloes invigorate rather than depress the
system. Effects may be modified by combination.

ation. Sulph. M. Carb. mag. Sulph. ~~dephos~~
Carbonate neutralizes any acid which
may be present. Castor oil & calomel may
be given together. Calomel on liver, castor oil
on bowels below. you have in this way a
more complete depletion of portal system
By combining several drastics the same
effects will be modified. Comp. Cathartic Pill
of S. in effect spreads it's spread over the
whole intestinal tract. The Purg effect is
increased by Conics. Senna will act better if
combined with gentian, juniper, columba,
does with asafetida. Purgatives act
best after a fast. mild drinks after the
purgative render its action easier. They are
frequently assisted by enemata. they are
nearly always safe. nearly all purgative
medicines in small doses may be given
by enema. care must always be exercised. In hab-
itual constipation of old persons, ^{purgative} enemata
are better than any other. they do not disturb
the digestive process. Between 3 & 6 parts is the
maximum quantity secured by rectum & colon

Suppositories. small solid lozenges introduced
into the rectum & allowed to remain there
a suppository should be 2 in l 1 inch wide
for an adult; waps. cocoa nut butter

Sulphur Tamias Bonell

Sublimed, washed & precipitated in
commerce. precipitated is the most
form for internal use. less gritty;
sublimed sulphur given in dose 1-23
in honey small or equal quantities with
5 sulphur 3 lime boiled together & precipitated
Precipitated sulphur a uniform white powder
especially in hard diseases such as light

Magnesia

a very mild laxative cannot be called purgative
Carbon Mag & Calcined mag carb more bulky
and lighter. Solub of sulph Mag res & Car Soda
strains precipitate wash with Aqua Distilla
with water in two forms light & heavy chiffer run
from the density of solution with which they
are prepared dose 10-60 gr as laxative

It is supposed to consist of exposed to strong heat it dissolves not soluble in water, water containing an excess of carbonic acid dissolves it readily. The chief objection is to some hot blif causing obstruction in the bowels. If acid is not in the stomach it does not act as a laxative. must not be long continued as apt to form concretions useful in bowel complaints of children as an antacid & laxative. Give acids when you suspect concretions dose for child 2 yrs old 5-20 grs sugar & water, with most convenient is the fluid Magnesia a solution ^{Carbonate} of Magnesia in Carbonate of Potash, 13 1/2 grs to 3 dose from 1/2 - 3 Tps for child 3-5 III it acts as a laxative. Calcined magnesia is prepared by exposing magnesia to a high temperature. It should not effervesce on addition of acid dose for adult 3j - 5

Custor oil

first of the true purgatives, imported chiefly from Cuba. seed of *Racina* *Rumicaria* oil not so good as East Indian oil, seed are pretty active, cathartic. leaves are large & fleshy & used to excite secretion of milk at the breast oil obtained from the seeds

either with, or without the aid of heat
when the oil is stained impurities are separated from
it by boiling with water, seeds yield about 30 per
cent of weight. Soluble in 1 vol of absolute alcohol
castor oil may be used in all cases when we wish
mildly to move the bowels. it is not absorbed acting
by local impressions. It does produce an increased
secretion of mucus. Sometimes it is absorbed & then it
does not excite purgation. serviceable in colic with
tenderness. highly recommended for children
not a good purgative to be continued at short intervals
less irritating to children than adults dose for adn
3℥ - 3 or 3℥ Child 3 acts from 2-4 hours
unpleasant to taste. whiskey & brandy. tea & coffee
milk. next way for children warm milk & sugar
Castor oil 3. yolk of egg. simple syrup 3 coloring
matter

Rhubarb

Chinese the general one in use. Russian always
in angular pieces. Generally a hole through it
Russian lighter than Indian. I find is smooth
& roundish on the outside not as bright as yellow
The hole is almost characteristic of Chinese than
a warming & stimulating cathartic, a tonic &
antispasmodic but probably not a stimulating one
small doses prove very serviceable in cases of dyspepsia
& keeps the bowels in a healthy condition
1/4 gr. Rhubarb with olive flake after eating
It is one of the best remedies you can administer after
debilitated conditions of bowels. Small doses
of Rhubarb with beut opoda is very useful
in cases of jaundice. & that 5 gr. of opoda
It acts as much by increasing the secretion as by acting
on the muscular coat of intestine. It renders the
stools quite yellow not to be mistaken for bile
frequently tinges the milk, perspiration, urine
& occasionally the bitter principle passes
with the milk & the pups even suck
cert of opoda careful. Exh. Infus. Comp. Pul
Co Pul. Syrr & Home

P 2 Lm 2 Sng 1 oz

Pul Rhu 2 oz

Magnets 2 oz dose ch 1-60. adul 20-60

Sng 1 oz. 2 Rhu to apt of Powder
Sng 1 oz Powder

Infusion

Rhu Ror in 1/4

boiling water 1000

keep for an hour dose 1-2 3

compill

Rhubarb in 3 3 3 III

Loc Aloes --- 2 3 1/2 3 II p

Myrrh 1 1/2 oz 3 T p

hard soap 1 1/2 3 I p

Shapemint 1 B 1/2 3 p

Isacade 4 oz 3 II

1 pt in 4 oz mass

lymph

Rhu in powder 3 II

Aniander 3 II

sugar 24 oz

Must of 8 oz

water 24 oz

1-4 3 per dose

Tincture

Rhub	2 $\frac{3}{4}$
Cardamon	$\frac{1}{4}$ oz
Coriander	$\frac{1}{4}$ oz
Saffron	$\frac{1}{4}$ "
Proof spm	20 $\frac{3}{4}$

dose ping 4-8 $\frac{3}{4}$ 2oz 1-2 $\frac{3}{4}$

Each in 44 gr to $\frac{3}{4}$ loo shun for pingab-

See before meals

Bmum

Rhub	1 $\frac{1}{2}$ oz
Mellon	60 gr
Cherry	20 $\frac{3}{4}$

dose 1-2 $\frac{3}{4}$ 33 gr 60 gr

Extract Rhub

Rhub	1 lb
Rect sp	10 $\frac{3}{4}$
Water	5 pints

5--15 grs



1 20
360

Third Exth U.S. very like the syrup

Penna

~~Casca~~ *Casia lanceolata*
Alexandrian *Indian* *seena*.

Casia elongata. Leaves differ from each other in diff. varieties. The two sides are unequal in size shape & length. markings on under surface conspicuous. leaves sweetish mucilaginous taste, difficult to break it yields its virtue to water & alcohol.

never follow *seena* tea blood it spoils the flavour *seena* contains a bitter principle. Cathartic

It grips sometimes, it is more readily retained by the stomach when that organ is irritable. It generally purges the infant at breast. It produces pretty copious mercurial secretions. sometimes

it will pass off by other passages. It depletes freely from the blood vessels, given in combination with salts. has given to children infusions generally used without the salts. Salbos *seena* in cases of indurated faces by augmenting the secretion & acting on the vascular coat of intestine. when *seena* is given alone in small doses it acts as a laxative. any of the aromatics may be given with it. It does not grip as much

if combined with salts. The stools are free & light
dark coloured & fatid. Inf Secum is apt to become
mouldy in a few days & is a great drawback to its use.
Hyposulphate of soda most likely would prevent it. try?
don't allow it to boil. pour boiling water on the secum
leaves & let it stand for 48 hours. give in small
doses super 1-3 oz until acts

Secum 3ij. 8mg 30gr Bollwut. 3x dose
1-3 5.

Comp Mixture of Secum (the old black draught)

Pulps Mac 4 oz

Gr Secum 1/2 oz

Inf Secum 2 1/2

Inf Secum 10 3

Inf Secum add to 1 pint

Dose 5 - 5 Tps

Secum is sometimes given in form of powder
Dose 5j - 5 ii

Third ex Secum peculiar to U S Pharm
is only the dried & evaporated down

Confect Secum. 7 oz Cora 3 oz

Gr Lr 3/4 oz 4ys 12 g. pulps from 6 23

Painings 9 oz dose 1-2 3

Smect-seena . dose 1-4 $\bar{5}$ useful as purgative
Syrup of Seena . dose 1-4 $\bar{5}$

Butter nut-

The bark furnishes an extract very like rhubarb
dependence affections, useful in; a mild unmit-
purgative. leaves alterative tonic in scrophulous
affections. collected in May or June
in which odour bitter taste

the bark is frequently used in family practice
15-30 acts nicely more like rhubarb than any
other remedy. an active principle jugmanidin
a stimulant & neutral & alterative in dose of 5-10 grs
known by electric union

Podophyllum . *P. peltatum*

obtained from may-apple. not the old mandrake
Atropa mandragora . common throughout
Canada, not used in medicine, sometimes in the West
in the fall the root should be gathered. The smell of the
is sweetish but acid mucous. extract of alcohol
may be used as jalap a little more active more on the
liver. It has an active principle, a resinous matter

Consists often or more numerous different solubility,
precipitate the tinct with water. pur dose 2 grs
somewhat sedative to the circulation. The powder
of the root may be given in dose 20 grs or 1/2 of root
dose 5-15 grs. act Pmays dose $\frac{1}{2}$ - 2 grs
in large doses it induces produces nausea. It appears
to be absorbed & thrown out through the intestines
effect said to be suppressed when taken acid or given
them with soda. in certain dropses Pm has
been given as a cathagogue & hydragogue
In convulsions of dentition in small doses, useful

Jalop Exogonium purga

an active hydragogue purgative or drastic.
It consists of powdered roots of *Exogonium purga* obtained
in the highland of Mexico near Jalapa at 6000 ft
above the sea. a very slender twining plant
exported from Vera-Cruz. tubers irregular pear
shaped. Alcohol extracts the active principle
water does not touch the resin

Jalop without the starch matters is often drastic
It produces very watery stools. Superintendence action

Corn Pul Ja

Salaps	5-	} doses 20-30 grs useful in anacarsa, congestion of the Kidney
Corn Jan	9	
Sanger	13	

Cal & Salops useful as vermifuge

most frequently given in combination with other purgative

12-15 grs of Salops 2-3 grs of Cal. Sanger 3 grs

dose child 2-5 grs. do not repeat - Cal & Salops too

poorly or give in repeated dose

Extract of Salops

Resin of Salops. dose 2-5 grs

Cal

Gamboge

gum resin obtained from *Spina & Syton cochine thians*

Several species of the genus *gamboge* (*Hesperadenium*)

Gambogioides. obtained by decaying the bark & collecting

the sap as it runs out. bright yellow juice which hard

when exposed to the air. *Gamboge* is adulterated

colours of surface a dull orange, a tawny colour no smell

almost without taste. contains about 70 per cent green

a dense convoluted fracture & dissolves in alcohol either

as a compound with alk. & a latex head. insoluble in water

a powerful hydragogue & diastolic purgative

next to croton oil, violent irritant. these large

doses generally produce vomiting & do not
 irritate as much as small one. some late writers
 state that Gamboge is not the villanous agent
 which we generally suppose. used frequently
 in small doses with other purgatives. It quickens
 their action. While its own is unobscured. It acts on
 the Kidneys. Continued in Comp's Cath Pill about $\frac{1}{12}$
 in each pill. Com

Con & Co 4c grs 12 grs } Scammony
 also
 Collyrium

2 Salap 9 grs

Calomel 9 grs

Gamboge 2 grs

dose 1-3 pills

dose of gamboge 1-4 grs

Comp's Pill of Gamb. Gan 1 gr Aloes ¹³ 3 Cinn 3

huss soap $\frac{1}{2}$ i. syrup in sup. dose 3-10 grs

Scammony (*Convolvulus scammonum*)

a gum resin. Synaxaria Minor. in

Comp's Colly & Mixture of Col

Scammony (Gum Resin). Confection, Comp Pill.

Pill Colly & Comp powd of Scammony

Scammony has an ash gray colour

It is a drastic hydragogue dose of guaiac 5-10
are given on Scammony 20-30 less imitating than
sameloge more so than Salap, though its general
effects are very similar.

Waterhouse (Squirting cucumber) *Ecballium*
vulgaris greater than pumpkins. fruit
a small oval cucumber. 1 1/2 inch in length
thickly set with bristles. seeds of flat small
roundish or oval like seeds of an apple
when fruit is ripe it pulls off the stalk &
burst at extremity & squirts out
the contents, this juice contains the active
principle, must collect a little before use
placed into pieces pressed, strained through
a sieve. obtained without pressure 100%
stronger than what is pressed. this flat
elongated pieces easily broken, of a green
greenish gray colour an intensely acid
taste on cathartics is equal to other strong
purgatives. commence with small doses
better adapted to ascites, powerful local
irritant. in overdoses an active poisoning
administer emetics, by the stomach &
section narcotics to check inflammation
injection dose from 1/6 - 1/2 repeated in 2
or 3 hours until it operates
the prep. in B. Pharm. the pure Waterhouse is neutral
157

James Howell

Black Hellebore root in B.P. Pharm.

underground rhizome of the plant small
blackish or brownish head about as
thick as a straw, a white bark colour on
fracture it is stamined principally from Germany
should be plucked up in fresh
contains an active principle hellebore extract
it has been long known in medicine. The hellebore plants
unprobably not the same as our hellebore. in overdose
forms emphysematous action, muscles atrophied
dose 10-20 grs sometimes from 5-10 grs in cutaneous affections
action of hellebore used 1400 B.C.

Saline Cathartic Wedgwood's

all produce a purgative action why draggers
stools all mild locally, with vigorous peristaltic
action on contents of large & small. Salines always absorbed
before they act in the bowels pass into the blood vessels
they pass the round of the circulation & are cleared
by the kidneys & bowels. must be largely diluted

Neutral Tart. Potash

made by mixing a sol of carb Pot with
cream of tartar or acid tart Potash

It is deliquescent, taste saltish, said to
have been used as salt in some sea voyages
It has been recommended as a mild saline purgative
after the administration of blue pill. It is
admirable to dissolve all saline earth before
use. Tart Potash chaphortie & expect
It has been largely used in febrile affections
of children, in cases of hepatic congestion
per 3ss - 3

Acid Tart Pot. Cream of tart. 1 Bet
found in grape juice obtained from
it also in pineapple & several other
fruits forms a crust in barrels in
which grape juice is fermenting, color
more or less reddish. If a warm concentrated
solution is allowed to cool a crust (cream) is
formed on the surface. The addition of a little
borax will render it quite soluble

It is used in the preparation of a number of substances
may be given suspended in water for small doses

without being thrown dissolved, but if in large doses it must be thoroughly dissolved, it is laxative & refrigerant. Given with other cathartics, useful in excessive lactation, frequently given as a laxative combined with sulphur, a similar mixture is useful in piles. It is without except the best diarrhetics we have it must be given in large doses, less than half an oz per 24 hours. $\frac{3}{4}$ - $\frac{3}{4}$ in 24 hrs you have abundant secretion, it should be given in small doses & frequently repeated. Give mixing up $\frac{3}{4}$ in juniper berries tea or weak port & a bit. & drink a wine glass full at intervals of an hour or more. per dose $\frac{3}{4}$ - 3 not often given

Sulph Potash

not used in this country as a purgative used in Dover's powder. ~~can~~ very gently & hard the laxative in from 15-20 grs purge 4-63. This undissolved & slightly bitter taste not very soluble in water & excreted when thrown into the fire

Bisulphate of Potash
not given in combination by modern writers
neither is it prepared by adding a little
sulfuric acid to the salt which decomposes
after the preparation of tartaric acid
It is an antacid and decomposed by heat
It is soluble in twice its weight of cold water
dose 3j ʒi/4 as laxative or emetic
It has a tonic effect when taken more frequently
used for cleaning green glass

Poduine Chloride

Obtained in various parts of the world
not often given as a purgative or emetic
as a laxative ʒj - ʒi/4 as a
purgative given with cold water with
It forms an excellent emetic after a purgative
It promotes digestion, generally
It is particularly useful in cholera
It appears to be necessary in the treatment of
heat of blood as a cold solution in
bath very useful for with cholera
Dose ʒi/4 of salt to a gallon of water

sufficient for an ordinary bath, Pot. Ez. salt
from a useful counter irritant in some
cases. It is sometimes given as an antihelmintic
usually given by injection. ~~often leeches have been~~
~~applied to internal hemorrhoids as they irritate~~
~~slip in.~~ in treating poisoning by strychnine
Chloride of soda is the best antidote. It is largely
used in the prep. of cal.

It was thought that the scurvy was greatly
produced & cured but has been shown
that it is not the absence of salt but the absence
of certain salts of potash which the sodium
drives out of the meat & the less fresh vegetables
which contain the Potash salt. As a local irritant
salt is exceedingly useful in hemorrhoids
1-3 teaspoonful almost certainly arrest the
bleeding. ~~how it acts is hardly known~~. A strong hot
salt bath is said to be very useful in some cases
of diarrhoea.

Phosphate of soda

In preparation of this bones are calcined & treated
with sulphuric acid & water. The sulphuric
It is what is called trisbasic sodium phosphate
found

This in form of fine large clear rhombic prisms
they rapidly effloresce in the air. when in
aqueous solution of crystallization nodosous
crystals in taste & common salt. insoluble in
alcohol soluble in 4 pt of cold & 2 of hot water.
its only advantage is its saline taste which
enables it to be taken easily. It was at one time
thought that it would prove useful in disease
of bone (osteomalacia) but this is played out
useful solely as a mild saline cathartic
dose large owing to water of cryst. $\frac{3ii}{\text{gr}} - \frac{3i}{\text{gr}}$

Salo-citra of soda
recently introduced said to be preferable to
citrate of magnesia. Part and

Granulated efflorescent citrate tart of soda

Citrate of magnesia
These three are fancy purgatives. they are cooling
but not very efficient

Sulphate of manganese

not in B. Phab in U.S. Disp. a beautiful rose coloured salt. diss. protoxide in sulphuric acid. filter & evaporate & crystallize. product when dissolved must be heated & carbon of manganese. to precipitate any iron & change the colour. This purgative in from 3*ʒ* to 3*ʒ*ii produces loosed stools & this to produce free bilious evacuation when blue pill has failed. in large doses it has produced general inflammation of the abd. viscs - a here recommended as a tonic & alterative, in anemias. Dr. Garrod has recently affirmed that it is comparatively worthless as a tonic. As an alterative it may be more valuable.

Dose purg 3*ʒ*. 3*ʒ*ii. 5-15 grs as alterative

Calomel ^{# S_2Cl_2 , HgCl_2} Hydrag. Subchloride

This said to have been used in Europe first in 1608 but was used in Tibet long before. prepared by effusion a combination between sweet spirits & calomel

Calomel 3*ʒ*, lime water 1 pint constitutes the black Broom useful in syphilitic ulcers also a disinfectant

This one of the most useful & the most abused
in the *Medicina Medica*. Its influence over the
glandular system is very great. It modifies
the conditions of the solids & fluids, it is a val-
uable alterative & cholagogue. when in large
dose it is sedative to the stomach, controlling
nervous irritability. It lessens the vascular
activity of the stomach. doses of 3j to 6j have
been fatal but these were probably administered
severe gastric abdominal pain. and the
It has been strongly recommended in Asiatic cholera in
doses 3j - 3 every hour or three hours. such large
doses are not justifiable until we have tried
large small doses. may be useful in small alter-
ative doses in the commencement of the disease;
It is one of the most valuable alterative/purgatives
in febrile affections, care must be taken in
the administration. It should be combined
with vegetable purgatives. In typhoid it
must be given cautiously. In formation of false mem-
branes some say that mercurials are serviceable
in inflammation of serous surfaces, in croup it
is used the the next after opium.

Hydrocephalus is said to improve under the use
of calomel. In meningitis inflammable & febrile disease
of children calomel is regarded with great favour
In some of the exanthemata it is useful, not
safe in scarlet fever. In small pox it is not so dangerous
but they are not well borne. In measles it is
often useful. In bronchitis opneades a combn
of calomel & ipecac is exceedingly useful
In anasarca calomel is indicated. It
must given in moderate doses combined
with other purgatives. In erysipelas calomel
often proves very useful. It may be given alone
or combined with vegetable cathartics.

Calomel & Jalap is often useful as a vermifuge
It is often given as an alterative in the commencement of
bilious complaint. It modifies the secretions, & mitigates
its force. The purgative power of calomel does not
increase with the dose above a certain point
from 5-20 grs will act as strongly as 3i-3ii
full purg dose 5-20 grs. dose child $\frac{1}{2}$ gr.

Blue Pill. Pilula Hydrargyri

And same strength as Hydrargum creta
this small 2 pt where 3 can oppose the motion
prudent

3grs contain 18grs of mercur

it is a soft bluish mass. the mercury is in
the form of metal not of an oxide
this could be effluent after act after powerful
purgatives have been administered
5grs of this full of calomel. often given
in combination with vegetable cathartics
this is also given to children difficult to make
them swallow. this milder in its general effects
than calomel.

Pilula Hydragryri cum creta. 1-3 pts
1 pt metallic mass 2 pts prepared chalk
a grayish blue insoluble heavy powder
this thought to be milder in its action than blue pill
and is most frequently to children as an
alternative. It modifies various secretions
secretion from liver pancreas & intestinal
glands dose for adult - 3grs 4 or 5 grs
1/2 - 3grs as alternative dose for children
purg dose 3-5grs tech 5-6 grs 1-2grs before

Cerebro-spinal Stimulants

Treatment of narcotic poisoning is simple
if acetabulum of stomach has been removed from
the stomach. If not give an emetic. Stomach
pump does not remove as well as emetic
if food is present it will block up the tube
or if the pieces of poison are large. If the emetic,
the instant it should be used. The salt Zinc
or Sulph. Alumina which perhaps the best
Sulph. Cupr. mustard, gamboge may be used
do not repeat them too often as they may
act chemically if they remain there destroying
the coats of the stomach. not more than two doses
should be given, abuse may be given freely
titillate the fauces with a feather
after the administration of as much of the volatile
emetics as you dare give. ipecac. water should
be given freely with whatever emetic you may give
an infusion of nutgall will precipitate most of the
active prin of the narcotics. magnesia will precipitate
many of them. coffee & tea may be given to counteract
the effects. the alk prin of coffee & tea may be given must
not be given. opium may be given. belladonna

has been highly recommended by some others reject
 while anti-narcotic are being administered, I shall
 have, make him walk in open air, freshen
 him well. When the patient is over the narcotic
 the danger is not so much, yet care must be taken
 that he does not sink under the subsequent
 depression

Opium

29/10

The most prominent property of the narcotic
 is the idea that it produces effects & prevents the
 proper organization of the blood has been recently
 promulgated. They exert an influence over the
 respiration through the blood. It has to be
 absorbed before it acts & is used in a number
 of diseases, in inflammation of the chest with
 pain opium will be requisite to allay pain
 in pleurisy, peritonitis, rheumatism, & all
 painful affe except those connected with
 the cerebral centres. In hemorrhagic affe,
 In chronic cardiac affections it is very useful sometimes
 It is obtained from the capsule of the whole poppy
 several kinds Turkey, Egyptian Persian Indian

Two varieties of Turkey Opium. Scintillant
Opium the best as the market in calls for
1 lb to 1 lb 1/2. In the exhibit a granular
aspect. Leaves placed around the pieces, the BPH
describes the pure opium grown in Asia minor
Turkey opium ought to be much 6-8 per cent
morphine the other varieties not much less.
This the taste is bitter unpleasant nauseous
a brownish colour. Anyman is a lighter brown
I have found it is easily powdered. water dissolves
about 1/2, alcohol 1/2 of Turkey opium. It is sometimes
very much adulterated, dilute acids exhaust its
active principles. But Aether dissolves the odorous
principles & narcotine, opium of this kind is called the narcotine,
It is one of the most complex articles in Mat Med. the
chem. morphine V.C.V.C. the most important are
the morphine, ^{the} narcotine, codeine, meconic acid
is useful in medicine. Codeine is an alkaloid
resembles morphine though weaker, closely allied
chemically, but a wide difference in their powers
not as reliable as morphine dose 1-3 grs. Narcotine
only recent introduced. price high. not to be depended
upon. dose 1/2 - 1 gr. It is soothing the nervous system

Narcotine it is obtained by digesting the water
extract in Sulf. Ether. It is met with in
white needle like crystals derived from
very large doses may be given without producing narcotic
effects. It is useful as an anti-spasmodic. It is bitter.
The salts are also bitter. acts powerfully as a diaphoretic
It is found in opium to the amount of 2-8 percent
not generally used in medicine.

Corydalis & Theriac produce convulsive symptoms.

Opium has lately been put in the market by a
gentleman in Detroit.

Extr. Opii contains all that is soluble in
water. made by dissolving in water - filter & evaporate
Comp. Pill of Opium is an opium pill. Op. 1 pt
 swaps 4 pts water gr. Suf. 5 grs contains 15 grains
use glycerine instead of water if you wish to keep them
only a dose of 2 is in the name.

Confec. Opii mix per opium & 1 gr in 40
may be used as an anodyne in colic & diarrhoea
An ordinary dose of opium is $\frac{1}{2}$ gr - 2 gr
if about is suffering much pain increase the
dose. In small doses from $\frac{1}{16}$ to $\frac{1}{4}$ it produces

10

~~Bellamy~~ ~~Pyralis~~ ~~2755~~

a stimulating effect. more than a large one. stimulation is produced by a dose that will not produce narcotism. in injecting it into the tissues the stimulating effect is hands manifest. It may be given either by mouth or rectum. when an aneurysm the fluid preparation should be given the mixture or infusion is in some soothing vehicle it may be given as a suppository. In cerebral cases it will produce its effect much more gently when given by the rectum. In giving it by rectum the dose must be increased beyond that which should be given by the stomach.

Dover's powder cont 1 gr opo in 10 grs each an anaphrodisiac & expectorant. it is exceedingly valuable in Bronchitis & pneumonia in adult and aged people also debilitated system.

Balleys sedative solution, Liquor opii sed.

In an old medicine the preparation is lost it was probably a watery solution of opium. It sleep is a little less than the Dutch opii dose 10-20 grt. elixirs are numerous in U.S. most of them

are, opium, alcohol & water. dose the same
as the tincture.

Proctor's preparation is similar to the denar-
alized tinct of opium. The second
Campbell's opium Paregonic contains
about 2 gr. - to 3. modern leuphoms are
larger than the old ones.

Opium 40^g, Benz 40^g oil of air $\frac{1}{2}$ Cam 30
powd 40^g at 1 pt, macerate & filter. The
camphor, oil of air & Benzene acid
give a stimulating effect to the mixture
dose for adult 5i - 5iv for child 8i to 12i
& increase with age of child. It is a useful
preparation.

Tinct Opii made by dissolv 3j in pure
proof spirit. This contains 53 grs to 3
4 1/2 to 3, dose 10 - 25 min. 14 min = 18 gr of opium
Vinum opii take Ext opii 3i cum aqua 75 gr
Chlor 75 grs Cherry 3XX. 22 gr. of Ext to 3i
does 8tt XX.

Acumen al the opium opium. Saffron,
Benzene acid,
dose 3j 3i 3 = 5 grs

Asm. Pow. Chalk with opium 1 in 40

a nice preparation useful in diarrhoea

Comp. Powder of Opium. Russ. opium & Camphor

double the strength of Pulveris 1-20

Corn Powder of Opium double the strength of 1-10

opium with pepper, ginger, camph.

Morphia

24/70

are all albid, & represent the narcotic strength, & react in combination with meconic

acid, a solution of opium precipitates the salts

opium & generally contains a little narcotic

salts either dissolved or not. Almost insoluble

in water, & in cold alcohol. Soluble in

acetic sulph. HCl acids dissolve it readily

Lact. bitter. dose $\frac{1}{8}$ - $\frac{1}{4}$ gr

Acetate. Muriate are principally used

some think that 1 gr opium = 6 gr opium

when the 1 gr = only 4 gr opium

Acetate is more delicate white and with morphine

strong at the morphine is directly by it, it is in

shades needle-like crystal. dose $\frac{1}{8}$ - $\frac{1}{4}$ gr

They may be applied endermically or hypodermically

The salts are supposed to produce the soothing

effects without the stimulation, this is
not so. the other strychninate quite as much
they ^{Salts of morphia} are sometimes inoculated on the point of the lance.
The solutions of morphia according to B. Ph are
of the same strength. the murate & acetate
murate
add 4 gr m 8 m HCl 13 m rect 63 Agn.
4 gr to 3, dose 10-60 min. White of acetate
is made in same way only use acetic acid
for Hyposcymus use a special solution using
the 16 gr to 3 murate 16 gr both use 13
15 m = 1/2 gr morphia.

Hyoscyamus Herbaceus

an indigenous plant in Europe occasionally
found in Canada, Fern Solenacia
leaves used in medicine, they are large, green
a green colour, water & alcohol extract for
Hyoscyamus belladonna & belladonna debate the propriety
Hyoscyamus sometimes contracts the propriety
in over dose it is acrid - narcotic - nausea
vomiting, &c &c. nothing in moderate dose
inferior in general narcotic properties to
opium, it relaxes the bowels. does not elicit
shaking

like pain, contraindicate in inflammation
gastro, contain an active principle Hyoscyin
1 drop of the water of sedative will debilitate the peristaltic
muscles & is between the effects. I use it & extract
are in general use. dose fruct No 3p-3
= 8g of powdered leaves, it has a sweetish taste,
greenish colour; Extract evaporate the
expressed juice of the fresh leaves. dose 5-10grs
not as useful a narcotic as opium

Cannabis Indica Indian Hemp

a more reliable narcotic than Hyoscyamus, frequently
had in this country, does not produce constipation
more in the force but not the frequency of the pulse, says
that Indian Hemp confuses while it excites; also forms
a volatile oil & resinous matter Cannabin, fragrant
odour, generally used in form of extract when the
dose variable fr a gr of extract of good but sometimes
the dose must be very much increased, may be given in pill
or emulsion. I use 1oz in pint of Spirit dose 5-20 min
22gr. t. S. generally mixed with a compress to the female
plants are used. But now made from the Extract
Ext when good produces good narcotic effect. It is recommended

to excite uterine contractions. instead of Ergot

Supp ether

distill a mixture of alcohol & sulphuric acid, in this way
the impure must be redistilled, for anaesthetic
purposes it must be distilled again. It is highly
diffusible stimulant, but its effects quickly pass away.
combined with (arethane) it is the best thing in a general
pectoris, In some all doses it acts on nervous system.

Hofmann's anodyne is a good anti-spasmodic &

It is contra-indicated in acute inflammations, dose

3j-3ii continue every hour if necessary, Give in wine glass
ful of sweetened water, It is not soluble in water 1/50

used as an anesthetic it is used in the U. States
used only by inhalation for anaesthesia, for internal use

Hofmann's anodyne is the best.

83 ether also ^{not} put heavy oil of wood 3iii-4g Hofmann's anodyne
It has a hot pungent taste slightly sweetish. 3j-3ii dose

Camphor

a more direct anesthetic than the ether, a concrete volatile
oil, obtained from a tree in China & Japan &c, it per-
vades the whole tree - Camphora officinalis.

Japan camphor is the best. Brought to Europe in
impure form, soluble in alcohol. Chloroform & some think
not something of great value others think it useful
dose 1-10 grs. in Powder of ~~the~~

(Stramonium) & Belladonna

It is more whooping cough. Droussard speaks highly
of it in large doses, & rather in one full dose than in
small repeated doses & it is safer one grain of $\frac{1}{5}$ grain in
24 hours. It has been recommended in vomiting during
pregnancy. in menstrual pain it is exceedingly useful
probably by giving tone to the sphincter of the Bladder $\frac{1}{50}$ - $\frac{1}{100}$ gr
J. D. will effectually stop it. It has been found useful in
covering milk abscess. The extract smeared over the breast
usually rubbed up with a little water & glycerine & smeared over
either the areola (if large) or over the whole breast. In painful
menstruation it has been recommended as a prophylactic in
scarlet fever. dose powdered leaves 2-4 grs. Extract made
from green leaves; Tincture from the dry. dose grs extract
 $\frac{1}{4}$ - 1 gr two or three times a day. To dilate the pupil
drop a minute of atropine in. Tincture 13 to a pint of alcohol
dose 5-20 min. An ointment & Linniment are
official. Empoisonment Belladonna. incorporating the

extract with adhesive plaster, are exceedingly useful preparation. useful in mania, abscess. in neuralgic affection of flat surfaces it gives prompt relief.

atropine, the active principle of the Belladonna not-conium made from the leaves, is in the form of a white needle like crystals alkaline reaction, will often dilate the pupil within minutes, more certain in its effects than belladonna. dose should never exceed gr. 1/2 or 1/10 proper dose one drop of a solution of 1 gr to 3 will dilate the pupil.

Lactuca Extract.

It consists of the milky juice of Lactuca virosa obtained from the stem, when the plant is in flower. ~~It~~
This is not a very reliable narcotic. It may be given in those cases in which opium from some advisory way is dangerous dose 5-20 grs not much used.

24252627

28/70

Conium maculatum Hemlock spotted.

plant looks a good deal like parsnip, found in Europe & United States. leaves gathered when the plant is in full full flower grows in many localities. like in properties to Lactuca virosa of this country. leaves & seeds of Conium maculatum are opifical. seed 1/8 to 1/2 in length.

And leaves are used are *Calaplasma Conii* fresh one -
used as extract. The active principle is a volatile oil & called
Conia. It is a direct sedative, sometimes inhaled useful
in sore throat; sedative to the brain & depresses the
circulation. does not often act upon the kidneys or skin
its narcotic powers are slight; it promotes but does not pro-
duce sleep. It soothes the nerves. It may be used in form of
powder, extract, or tincture. Extract most frequently
used. made by wrapping the ~~express~~ residue of
the leaves. dose 2-6 grs & may be repeated 3-4 times
a day. It was supposed to have a specific influence over
the uterus, & infants is sometimes useful.

Not of its strength & value rub it with a solution of
potash & if it does not give out a strong odour. It
is worthless; *Calaplasma Conii* useful in painful
tumours enlarged glands. Incense is made from
the seeds $2\frac{1}{2}$ 3 pint. dose 30-60 min & increases
Succus Conii in B. Ph $3\frac{1}{2}$ 3 not as reliable as *Lin. Conii*
Conia the active principle, best obtained from the
seeds. It is a yellowish liquid. an acid bitter taste
very volatile

31/1/80

1.43 normal ^{density} Chloroform. Trichloride of carbon
a colourless liquid, sweetish taste. volatilizes in air burns
with a black smoke. vapour heavy & can be poured from
one vessel to the other. this fact should be attended to
such when thrown into water gives a sweetish taste
to the water. Alcohol & ether dissolve it readily
cohesion between the particles of chloroform is very feeble
alcohol & ether are common impurities not dangerous ones
only weakens it. commercial ch contains 5 per cent
when dropped in water if alcohol is present the
globules are surrounded by a milky film. ~~But~~
Chlorine compounds are dangerous impurities
Perfectly pure chloroform does not keep well and should
always be mixed with a little alcohol. The most sensitive
test for ch is the be-ntio of iron which becomes brown
on addition of a drop of chloroform. when chloroform is prep-
ared at a high temperature it more readily undergoes
decomposition. chlorine compounds may be detected by
nitrate of silver when a white precipitate of ~~nitrate~~
of silver chloride of silver. Irritating to the skin, produces
intense pain, but is sedative afterwards. It diminishes
the power of the blood to unite with oxygen

more danger in the attempt to bring a patient under
the influence with a small quantity than a large one
in a fatal case of 15 drops, 30 gtt in another
chloroform gives 4 drops to the minute. The lungs
are found of a bright rose colour. The right cavities
of the heart are filled with dark red blood. Brain
& nerves appear normal. surface of the brain engorged with
blood, not the deep ones as in apoplexy, lungs sometimes con-
gested sometimes pale. death under the influence of
chloroform in animals is somewhat different
from that in man. occurs in human subject
by syncope, by asphyxia, by nausea
a diseased condition of the blood i.e. containing
too much chloroform. the kind of death is gener-
ally slow & does not often occur. The most usual
cause of death is syncope. ~~May be fatal~~
~~with the~~ I now thought that no diseased
conditions contra-indicate the use of chloroform
other way, that certain conditions of organs such
as fatty hearts, diseased lungs, long continued
use of alcohol, all contra-indicate chloroform
up to 1867 130 deaths had occurred which according
to Dr. Dawson is 1 in 10,000. When dangerous symptoms

manifest themselves. sudden pallor comes
on the respiration is labored, the patient
should be in a recumbent position the tongue
should be pulled forward, resort to artificial
respiration. The Marshall Hall or the Syzov's
blow gently into the patient's mouth, nasals should
be applied, in cold water, friction should be
urgently applied. galvanism should be
used, the current should not be too strong, success
followed in 8 1/2 hours perseverance. injections of
brandy, water per anum. The majority of the deaths
have been in persons with healthy hearts
when the patient is about to take chloroform. he should
not be allowed to fast too long, about three hours before
he should have the stomach empty

9/2/10

Tonics

They are medicines which react the vital functions. Divided into three classes. Animal, Vegetable & Mineral.

Oxide (Animal Tonics)

formerly used freely & has been brought into use again. dose 5-10 grs two or three times a day. supposed to act partly through the stomach, & partly passes into the blood & improving the general amount. It is frequently given as a chlozoene, but probably only in supplements on oxide when not in sufficient quantity.

Cod Liver oil

is obtained from the liver of the cod fish. Three kinds of oil. brown, pale brown & pale. The darker the oil the worse the taste. The palest is the most efficient. It is injured by long exposure to the air. It becomes rancid. some 27-30 distinct substances in Cod Liver oil but it is impossible to say upon which principle its efficacy depends. 27 pt. of Iodine in 100,000 pt. of oil or $\frac{1}{1000}$ in 3 pt. 27 pt. of Phosphorus in 100,000; . It does not alone increase the fat but it increases ~~the~~ ^{the} . It is the only remedy that exerts a marked influence over the tuberculous diathesis.



and they favor the secretion of a more healthy gastric juice, & so promote digestion. some think that the bitter principle is absorbed and acts as the bitter principle of the bile does, this is not the generally accepted view. They sometimes prove emetic & laxative in over doses. excessive doses by far will produce nausea. some are more prone to this than others. Hence these bitters are often given with purgatives. In various headaches they are given with ant-acids as magnesia when there is constipation. The simple bitters are generally resorted to after severe diseases they promote digestion & assimilation.

The Peculiar bitters contain certain principles ^{which act on the system} besides the simple bitter which acts on the stomach. The simple bitters may be chosen almost indiscriminately, but the peculiar bitters have to be selected according to the peculiar system affected.

Luassia. *Luassia* ~~is~~ ^{is} usually in sandal or shaving comes from the West Indies. contains a neutral principle *Lassia*. It does not interfere with any of the medium

This a pure and simple bitter. It is very destructive
in to insects. and as a fly paper, recommended
in treatment of scabies. an Infusaria may be used
in Pediculi capitis corporis. It is said by some
writes to irritate the bowels in large doses. It is one
of the purest & most powerful bitter we possess
it is applicable to all cases of uracis & is the
earliest & more tonic in consideration. It may
be given alone & after meals with pepper along with
Useful in the uricemicularis, one of the best remedies
May be used in Powder, Lincture & Infusion, some
who are dyspeptics chew the quinine chips continually
& it is highly recommended for tobacco chewers
dose 20-30 grs of Powder. An Infusion is made by steep
3ii of chips to 3℥^{quater} 1-4 oz twice a day may be
made either in hot or cold 20 minutes with hot
12 hours with cold. An Extract is made by steeping
the Lincture with water and evaporate to an extract
dose 2-5-10 grs. Lincture ℥oz 1 pint rectified spirit
dose 3℥ 3ii, some years ago some persons feared
that the Extract would prevent Asiatic cholera
it was inoculated by making an emulsion 10-15 grs.

Sentra a European plant. First taken
found in Italy island. root several inches in length
tapering sometimes dried, spongy wrinkled epider-
mis are thought to lessen the bitterness. Conclude Iodine
destroy the bitterness entirely. It contains no saline
acid yet it undergoes decomposition in which gluvon
then converts into Picric acid. It contains a consider-
able quantity of opaccharum matter & undergoes fermentation
In Switzerland they make an intoxicating drink
all the bitter renders the milk bitter sometimes & the
yonder most milk. Sentra sometimes acts on the bowels
the infusion spoils in a short time by fermentation
It has been mixed with hot water

Colomba. a climbing plant. East Africa

Bog Bear indigenous in Canada & U.S.
a marshy place used to impart bitterness to ale
^{the} Caracassole.

The dried flowers cultivated in Europe & these usually
they have a strong aromatic taste. are aromatic bitter tonic
useful in indigestion. frequently used in fermentation
Dose powder 10 - 30 grs

Infusion is the best form to administer $\frac{1}{2}$ oz in pint of water
3i - 3ii as dose, given cold

Eupatorium. Boneset
faint odour for bitter. Taste. the effects differ
in moderate dose cold, tonic, warm in free
doses emetic, powder, as a tonic. moderate
doses warm diaphoretic. act upon Eupatorium
dose 3-5 grs. It is well suited to the indigestion of
old persons. useful in influenza a warm infusion
in free doses. dose powder 20-30. Inf 37 to 50 grs

Aristolochia Serpentaria. Virginia Snake Root
a very palatable tonic a caecophora accon odour
when fresh has a yellowish colour. Its tonic & diaphoretic
first brings into notice as an antidote for a hot Respite
may be used in dyspepsia forms a good vehicle for
Carbonate of ammoniac.

Myrrh Res
a balsamic exudation from Balsamica myrror.
It is brittle. taste bitter acid, when pure yields
bitter resin soluble in oil. alkalies combine readily
& render it more solid. myrrh is a bitter tonic tends
to purge and uterine

Nux Vomica
an orange coloured berry about the size of an orange & the

max is embedded in it. covered thickly with
an ash coloured hairy substance, they are very hard
it contains 3 alkaloids, strychnia

It is tonic with diaphoretic & diuretic, used in
paralytic condition of the motor nerves
in anaemia is much used, useful in many
cases of dyspepsia & indigestion. highly seen
in prolepsis in young children. in strychnia
of the eye it is useful. this condition is probably
connected with disordered stomach. dose to be given
10-15 minims. when given too freely it produces
involuntary contraction of the muscles

It is an excellent remedy in venous tumours
the alcoholic extract is sometimes added to purgative
pill. in $\frac{1}{2}$ gr dose to pill. I necture & Extract of
strychnia. I nect 2 or 6 pint dose 10-20 m.

Extract. dose $\frac{1}{2}$ - 2 grs. Strychnine endermic
dose not more than $\frac{1}{2}$ gr. in poisoning. ^{must begin} artomges
meotine, chloroform, Calabar Bean are the
best antidotes.

Hops. Incline unclear. Supine better. a
pillow of hops is often recommended to produce sleep
may be used as tonic in dyspeptic cases. use for microbes
used principally in mal. any aleporter to which it imparts
a better as well as a tonic property. Lycopodium the bitter principle
it consists of little yellow granules which are on the leaves
obtained by rubbing the hops & then sifting. dose of lycopodium
6-12 grs & more if necessary a tinct is recommended.

Dog. wood. (Cornaceae). rubra B. Ph
a small tree 11-20 ft in height. It has a grayish red colour
water alcohol extract the properties. act princ. cornin
has been used for quinine. It is a mild tonic & febrile
antimiseric. Powder dose 3 & up to 5 ii

Willow Bark

the bark of Salix alba act. principle salicine. It is a mild tonic
slightly anti-periodic. 3 p tonic. 3 antiper & 1/2 like 3 i in
the intermission. Deception is sometime used in old times
to conceal. salicine is not precipitated by any reagent known
dose of salicine 2-8 repeated was that 20-40 grs per the part
it opens the stomach less than quinine

Wild Cherry bark (Cornaceae brugniana)

amounts of inner bark is not to be confounded with choke
cherry (Prunus virginiana). bark from roots is the best

Nutmeg . myristica. more
are obtained from large nut chambers. Mace is the mem-
branous portion of the outer covering the

c. Cubeb. Piper

Leisourmy plant from east Indies useful
in hemorrhoidal affections. obtained from a climbing
petiole plant. they resemble black pepper
It does not in shape. & odor aromatic. they have
dore powder 3p² 1 mucous membranes more
1/2 to 1 pint. dose 3/11. tinct. of hemorrhoid
a Symp is mentioned Symp. Pami. Indica

Bark

31

Jugum

1/2 . White Gut Sug

Argentina Bark ~~Ind.~~ Caspasia

obtained from Gallesia officinalis growing in S America
It occurs in flat pieces & roots. It contains a volatile oil
a bitter principle & a resin. It is said to keep the bowels
slightly open. dose 10-30 gr. Inf. 1 g - 1 pint boiling water
Linct.

Cascarilla

Bark of Crota alata, in West Indies. bark thin
Inf 2 g in pint quantity Linct 2 1/2 to pint

Hops. Incline unclear. Suffer better. a
pillow of hops is often recommended to produce sleep.
may be used as tonic in dyspeptic cases. use for indigestion and
used principally in malary ailments to which it owes
a bitter as well as a tonic property. Scrupule the bitter principle
it consists of little yellow granules which are on the
obtain by rubbing the hops & then sifting. dose of it
6-12 grs increase if necessary a fruit is very large

Dog. wood. (Cornace) grows over the
warm tree 10-20 ft in height

Wormwood

It is simply a mild bitter tonic and has no expecto-
rant properties.

Sage 3 1/2 pms. dose 2 grs

Orange Peel

two species better sweet, bitter orange peel has
slightly tonic properties.

Cinnamon haberd Larraia

under bark of a tree in ceylon. It appears that an
aromatic influence on the cinnamon wood

Cinnamon ginger Cardamom in equal parts in the Palau Co

Cassia Bark than for Larraia

it is an aromatic stimulant it is a constituent of Balaam Rhei.

Nutmeg . myristica. mos
are obtained from large seed chambers. Mace is the inner
brownish portion of the outer covering the

Cubebae. Piper

aromatic plant from east Indies useful
in gonorrhoeal affections. obtained from a climbing
perennial plant. they resemble black pepper
spherical in shape. & odor aromatic. they have
a tendency on the mucous membranes & more
applicable to the first stage of gonorrhoea, & even
for leucorrhoea. in doses from 10 grs to 3 $\frac{1}{2}$ these large
doses disturb the stomach. they contain a large amount
of oil dose of oil 10-12 grs better borne than powder
Brown's Bronchial Troches contains oil of cubebae
sugar & tragacanth, there is an oleo-resinous extract

Matico. Piperace. Aristolochia elongata

native of S America Peru. dried leaves of the plant
2-8 inches in length like the sage plant
it contains a volatile oil & bitter principle it is generally
regarded as a strong astringent. it contains no tannic
it is not an astringent. it is a styptic & stimulant.
the volatile oil is styptic - bitter principle is tonic & stimulant.

Dear Mary

Dear Mr. B

2/11/70 Danville

longation in the center of the A location. It varies
in size & shape from a pinhead to a growth which would
fill the nasal cavity. generally several of them. The attach-
ment to the septum is dense & firm. Origin connects
with attacks of ordinary catarrh. Symptoms are at first
he is most frequently catches cold, thus attended with a
slight discharge, feeling of uneasiness & weight in the nos-
trils & makes frequent attempts to remove it by blowing
his nose. ~~As~~ the mucous membrane of the nose are much affected, the voice
is altered & is nasal, he sleeps with his mouth open.
The second form is regarded as a malignant growth, soft
which readily breaks down & bleeds on slightest injury
& is similar to soft cancerous growths, this is generally
attached to the peristeme of the bone & unless of bone, at the
of a pedicle it is a broad one, & extends upwards to the ethi-
moid cells & downwards to rapid growth & increasing disfigure
the bones & other parts to produce a considerable amount of
deformity. Filiform the 3 form, this form consists
of several ridges of bony tissue & several processes
into the cavity of the orbit, ^{occurs} at all ages & most fre-
quently in mid-life 30-45 males occurs in decline of life 45-60
It is rare in young children & boys. As the form must
often for P.D. is multiple & by pairs. As each pair of cells
is often met in a pair of processes, usually by union

(order)

(suborder)

(family)

Helmintha

Stelmintha

Calmintha

Ametelmintha

Acanthocephala

Cestoda

Durbellaria

Oronata

Meruloda

Planaria

Planaria

Baseta monosomida

Baseta distomida

Baseta distomida

Baseta distomida

Baseta distomida

Baseta distomida

Baseta distomida

Baseta distomida

Baseta distomida

Baseta distomida

Baseta distomida

Baseta distomida

Baseta distomida

Baseta distomida

Baseta distomida

Baseta distomida

Baseta distomida

Baseta distomida

Take of

Granulated zinc $\mathfrak{Z}\text{XXVI}$
Sulphuric acid $\mathfrak{Z}\text{XII}$
Aqua distilat $\mathfrak{Z}\text{XL}$
Chlorine water a suffic
Carbonate of zinc $\mathfrak{Z}\text{p}$

add the H_2SO_4 to previously mixed with the
water to the granulated zinc and stir
until effervescence ceases. then continue the acid
and gently heat to ^{inflame} ~~the~~ ^{the} solution into a gallin
the acid add chlorine ^{with} ~~with~~ ^{inflammation} ~~with~~
and odor of chl escapes

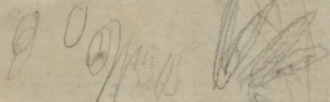
Samuel Bowell

Leip mesenteris } 1. color ~~anther~~
 " " } 2. " ~~anther~~ } from ~~concentric~~
 " " } 3. ~~anther~~

from ~~concentric~~ } 18-20 rows - ~~anther~~ *stems*

James Bouill

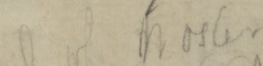
James Bouill ~~anther~~

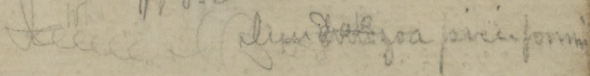




S

What do you call this?





Greater fleas have smaller fleas
 upon their legs to bite 'em
 and little fleas have bunnies
 and so and inflections

C. Kingsley or

$K_2S_6 \cdot C_4H_4O_7 \cdot H_2O$

